

<110> Ruben et al.

<120> 94 Human secreted proteins

<130> PZ029P2

<140> Unassigned

<141> 2002-01-18

<150> 60/263,230

<151> 2001-01-23

<150> 60/263,681

<151> 2001-01-24

<150> 09/461,325

<151> 1999-12-14

<150> PCT/US99/13418

<151> 1999-06-15

<150> 60/089,507

<151> 1998-06-16

<150> 60/089,508

<151> 1998-06-16

<150> 60/089,509

<151> 1998-06-16

<150> 60/089,510

<151> 1998-06-16

<150> 60/090,112

<151> 1998-06-22

<150> 60/090,113

<151> 1998-06-22

<160> 550

<170> PatentIn Ver. 2.0

<210> 1

<211> 733

<212> DNA

<213> Homo sapiens

<400> 1

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tctcccggac	tcctgaggtc	acatgcgtgg	tgggtggacgt	aagccacgaa	gaccctgagg	180
tcaagttcaa	ctggtacgtg	gacggcgtgg	aggtgcataa	tgccaagaca	aagccgcggg	240
aggagcagta	caacagcacg	taccgtgtgg	tcagcgtcct	caccgtcctg	caccaggact	300
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agaaaaccat	ctccaaagcc	aaagggcagc	cccgagaacc	acaggtgtac	accctgcccc	420
catcccggga	tgagctgacc	aagaaccagg	tcagcctgac	ctgcctggtc	aaaggcttct	480
atccaagcga	catcgccgtg	gagtgggaga	gcaatgggca	gccggagaac	aactacaaga	540
ccacgcctcc	cgtgctggac	tccgacggct	ccttcttcct	ctacagcaag	ctcaccgtgg	600
acaagagcag	gtggcagcag	gggaacgtct	tctcatgctc	cgtgatgcat	gaggctctgc	660
acaaccacta	cacgcagaag	agcctctccc	tgtctccggg	taaatgagtg	cgacggccgc	720
gactctagag	gat					733

<210> 2

<211> 5

<212> PRT

<213> Homo sapiens

<220>

<221> Site

<222> (3)

<223> Xaa equals any of the twenty naturally occurring L-amino acids

<400> 2

Trp Ser Xaa Trp Ser
1 5

<210> 3

<211> 86

<212> DNA

<213> Artificial Sequence

<220>

<221> Primer_Bind

<223> Synthetic sequence with 4 tandem copies of the GAS binding site found in the IRF1 promoter (Rothman et al., Immunity 1:457-468 (1994)), 18 nucleotides complementary to the SV40 early promoter, and a Xho I restriction site.

<400> 3

gcgcctcgag atttccccga aatctagatt tccccgaaat gatttccccg aaatgatttc 60
cccgaatat ctgcatctc aattag 86

<210> 4

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<221> Primer_Bind

<223> Synthetic sequence complementary to the SV40 promoter; includes a Hind III restriction site.

<400> 4

gcggcaagct ttttgcaaag cctaggc 27

<210> 5

<211> 271

<212> DNA

<213> Artificial Sequence

<220>

<221> Protein_Bind

<223> Synthetic promoter for use in biological assays; includes GAS binding sites found in the IRF1 promoter (Rothman et al., Immunity 1:457-468 (1994)).

<400> 5

ctcgagattt ccccgaaatc tagatttccc cgaaatgatt tccccgaaat gatttccccg 60
aaatatctgc catctcaatt agtcagcaac catagtcccc cccctaactc cgcccatccc 120
gcccctaact ccgcccagtt ccgcccattc tccgccccat ggctgactaa ttttttttat 180
ttatgcagag gccgaggccg ctcgcgcctc tgagctattc cagaagtagt gaggaggctt 240
ttttggaggc ctaggctttt gcaaaaagct t 271

<210> 6

<211> 32

<212> DNA

<213> Artificial Sequence

<220>

<221> Primer_Bind

<223> Synthetic primer complementary to human genomic EGR-1 promoter

sequence (Sakamoto et al., Oncogene 6:867-871 (1991)); includes a Xho I restriction site.

<400> 6
gcgctcggagg gatgacagcg atagaacccc gg 32

<210> 7
<211> 31
<212> DNA
<213> Artificial Sequence

<220>
<221> Primer_Bind
<223> Synthetic primer complementary to human genomic EGR-1 promoter sequence (Sakamoto et al., Oncogene 6:867-871 (1991)); includes a Hind III restriction site.

<400> 7
gcgaagcttc gcgactcccc ggatccgcct c 31

<210> 8
<211> 12
<212> DNA
<213> Homo sapiens

<400> 8
ggggactttc cc 12

<210> 9
<211> 73
<212> DNA
<213> Artificial Sequence

<220>
<221> Primer_Bind
<223> Synthetic primer with 4 tandem copies of the NF-KB binding site (GGGGACTTTCCC), 18 nucleotides complementary to the 5' end of the SV40 early promoter sequence, and a XhoI restriction site.

<400> 9
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ccatctcaat tag 73

<210> 10
<211> 256
<212> DNA
<213> Artificial Sequence

<220>
<221> Protein_Bind
<223> Synthetic promoter for use in biological assays; includes NF-KB binding sites.

<400> 10
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caattagtca gcaaccatag tcccgccct aactccgcc atcccgccc taactccgcc 120
cagttccgcc cattctccgc cccatggctg actaattttt tttatttatg cagaggccga 180
ggccgcctcg gcctctgagc tattccagaa gtagtgagga ggcttttttg gaggcctagg 240
cttttgcaaa aagctt 256

<210> 11
<211> 899
<212> DNA
<213> Homo sapiens

<400> 11

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caccctggc	aaagacagat	tttagtataa	tactcctaaa	actacactgt	cttttttttt	120
tttctgtcat	aagtgtgcat	tgtgctcagt	cattttatttc	agtgacccaa	acagagccca	180
gtccagctgt	ttgtattttc	cctgcagtg	gaagtggact	agggccatgt	gactaagaaa	240
gccagcctgg	gggctgtctt	ttcacctaca	gatgttttaa	tgtgcttaac	attatccaat	300
actagcaacc	gagatagtct	aaataccaca	gcaggatctg	attagctttt	tcagatcact	360
gcctttat	gctgtttgca	aaaaagctta	atccagtgct	agagatcagg	cttcctgctg	420
agccctgggg	tagttttctt	cattctttgt	gttcacagt	gcaggcggtta	gtgagcagat	480
tcctcctcct	cctaaattaa	agctgtaaag	tagtaactgt	agtagcaagg	gataaagaga	540
aggaagaaaa	cccaagggaa	aaaagaagac	tgtctattca	taccaagtag	tttccttgat	600
atacacaaaa	gaaagagttt	ctaatatgaa	ttcataaata	ctgacctcag	tgctcttctt	660
actcagtgca	cagctatttaa	gtttttattag	gtttcagttg	taactacttt	gtgtggatat	720
atgttacgtt	tttcatattt	atcctactca	atcaatctca	gtttttaccag	aagaattaca	780
tttattagcc	ataacagtg	cccttctctt	attcttttca	gggctgatat	ctttttttatt	840
catgagattt	caaaaagaac	tatcaccacc	actaacaaaa	aaaaaaaaaa	aaaaaaaaaa	899

<210> 12
 <211> 1140
 <212> DNA
 <213> Homo sapiens

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ccttcttgtg	gggtcacgg	cacctttcca	cagtacagga	cttcgaactt	ctgagagttg	120
taaaaggcgt	cctcattatc	tttgctgggt	ttggcatcct	ctttcatggc	cgmttttagat	180
aattgcctta	tgctgcta	aacatcagga	acctggctgg	ggtctgtggc	gcggaaaacg	240
tggcaggcca	tctgcgactc	ggggtcgtcg	ggctgcgcct	tgatcaggta	ggcaaagtag	300
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cggaaccgct	tatcgcttgg	cttcccgggg	ccgggctgag	ctgagacgcc	cggctcgggc	660
tccagggggg	gcgggaacgg	ctcatcctga	atgcagctgg	gcggctycat	aactctcgcc	720
tcaccagggc	accgcggagg	ccggccgggc	gcaccgcgc	ccccactccc	gcgcagaagg	780
cgccgccgaa	actgtgccaa	ctgccgcacc	gggctyccgc	gcctgcctgg	gagcggcgcg	840
accccgaa	ccgcgcttca	gcagccctgc	cccatgcagc	acttccacgg	gcgcggctcg	900
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agggtcagag	gaccacgccg	agggtccccg	cgccgctctt	agaggatccc	tcgaggggpc	1080
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<210> 13
 <211> 1425
 <212> DNA
 <213> Homo sapiens

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tcaacaggat	attcttcaag	gaaaatgaac	cccacactag	gcctggccat	ttttctggct	180
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agcattggga	acacgctgtt	cattgaccag	aggctgcagc	cacagcgtaa	gtttttggaa	600
gatgccaaaga	actttttacag	tgccgaaacc	atccttacca	acttttcagaa	tttggaaatg	660
gctcagaagc	agatcaatga	ctttatcagt	caaaaaaccc	atgggaaaat	taacaacctg	720
atcgagaata	tagaccccg	cactgtgatg	cttcttgcaa	atttatattt	ctttcgagcc	780
aggtggaac	atgagtttga	tcctaatgta	actaaagagg	aagatttctt	tctggagaaa	840
aacagttcag	ctgatgttgc	cattgatgtt	cgtagtggca	tataccaagt	tggctatgac	900
gataagctct	cttgaccat	cctggaaata	ccctaccaga	aaaatatcac	agccatcttc	960
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gcacagactc	tgcccatgga	gacaccactc	gtcgtcaaga	tagacaaacc	ctatctgctg	1320
ctgattttaca	gcgagaaaat	accttccgtg	ctcttccctg	gaaagattgt	taaccctatt	1380
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gccgc						1445

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 <211> 1208
 <212> DNA
 <213> Homo sapiens

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 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (59)..(59)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (79)..(79)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (814)..(814)
 <223> n equals a,t,g, or c

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 <211> 1175
 <212> DNA
 <213> Homo sapiens

<400> 15						
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aataacatca	gctctgatcg	gatccagctg	atgaactctg	ggattggctg	gttccaacct	840
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ggcaaattaa	gatctggggg	cccagtgtca	ttggtgaagg	ccttgggatt	cgaggcagct	960
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<210> 16
 <211> 2374
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (556)..(556)
 <223> n equals a,t,g, or c

<220>
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 <222> (2344)..(2344)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (2346)..(2346)
 <223> n equals a,t,g, or c

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gtgagcattc	ttgagtgggt	ttgcattgtg	tcttcacaca	gttgtagcat	aatttraagct	240
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ccttttctagc	atttctaaaa	gatggcaggt	tcttgagagc	cacatctttg	caaggcagta	1140
ttttcaaaat	ataaaatagc	ccccaaacca	aacctttaaa	catgaagggc	aaatgggtaa	1200
agacttaata	ttctttttgt	gtcaagtata	cttaatgtaa	atctagtgtc	ttgtgaagta	1260
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ccagcactgt	ttgaaagtgc	atgtcaagcg	gctagctcca	catttggtct	tcgaaaggga	1620
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<210> 17

<211> 1595

<212> DNA

<213> Homo sapiens

<400> 17

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<210> 18

<211> 1287

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

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<223> n equals a,t,g, or c

<220>

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<222> (1202)..(1202)

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 <223> n equals a,t,g, or c

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<220>
 <221> misc_feature
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 <223> n equals a,t,g, or c

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<210> 19
 <211> 1396
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (668)..(668)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (739)..(739)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (751)..(751)
 <223> n equals a,t,g, or c

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<210> 20
 <211> 1277
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1207)..(1207)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1272)..(1272)
 <223> n equals a,t,g, or c

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aaaaaaaaaa	anaaaaa					1277

<210> 21
 <211> 1781
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature

<222> (1494)..(1494)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1496)..(1496)
 <223> n equals a,t,g, or c

<400> 21

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<210> 22
 <211> 1491
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1425)..(1426)
 <223> n equals a,t,g, or c

<400> 22

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 <211> 1839
 <212> DNA
 <213> Homo sapiens

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 <211> 1384
 <212> DNA
 <213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<210> 26
<211> 1949
<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

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<400> 26

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 <213> Homo sapiens

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 <223> n equals a,t,g, or c

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 <212> DNA
 <213> Homo sapiens

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<210> 29
 <211> 1296
 <212> DNA
 <213> Homo sapiens

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<210> 30
<211> 1979
<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

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<210> 31
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<212> DNA
<213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

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gctcatgcac	attcatctgg	atacttcac	actcaagact	ctgcatttgg	gaaccttatt	300
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tttgtaatat	caaagtccaa	agctactatc	attcagtgt	acatgaactg	tgactttaag	420
aattttggtg	aactttgata	ttttttgttt	gtctgaaaga	aaggaaatgtg	taagtgaag	480
ctgaaagaag	aataaccagg	atgatgagag	ctgtggaagc	tgtatcgctc	aaggaaattga	540
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tggatgggtca	cgaagtcatt	ccccaaactc	tagcaagttt	gactgaatat	atcatgtcca	660
cagtagattt	tcaagaatca	tttatagtag	ttaaacttaa	agaaacaagg	ctgcttttaa	720
aaaatgaact	aataggctta	aatcaattgc	atccatat	gctgtttata	ggattgctat	780
cagtatacct	tttgcgttta	tagtcaacat	gtatcatcct	gaaatattct	ttctggactt	840
ataactactt	cccccttttt	cacttttaaaa	caaacctcaa	gaataaatta	ctaaccagtc	900
ttaaccatct	tttataaaca	tatgctctta	taaatgttgt	gactagatgc	aattaaaaat	960
aatagggaat	gtggtagggt	tttaatttgt	acatcctctt	atttagtgtt	accacataaa	1020
tgatgagttt	gtgtggttct	gttttccatt	tttgttctaa	ctgaaaactt	tttggctggt	1080
cttgaactct	tggcctcaag	cagtcctctc	gatcctccca	ccttggcctc	ctaaagtgtc	1140
gagattacag	gtgtgagcca	ctgcatctgg	cttacttatt	ttgtctattg	tctgttccac	1200
tagtatgtaa	agtcttagag	agcaagaatt	tttgtttatt	tctttctctt	cctcctttcc	1260
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cagatgtcag	tgctttgacc	ctggaataaa	aactgaaatg	acttagtgat	ttcaaaaaaa	1500
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	a			1531

<210> 33
 <211> 2090
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (967)..(967)
 <223> n equals a,t,g, or c

<400> 33						
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ccgagctgat	gcccataaatt	gtattgatcc	tcgtgtcatt	attaagccag	ttgatggctc	120
ctaactcctc	ttattcctta	tatcccagat	ctggaactgg	gcaaactatt	aaaatgcaaa	180
cagaaaaactt	gggtgttggt	tattatgtca	acaaggactt	caaaaatgaa	tataaaggaa	240
tggtattaca	aaaggtagaa	aagagtgtgg	aggaagatta	tgtgactaat	attcgaaata	300
actgctggaa	agaaagacaa	caaaaaacag	atatgcagta	tgcagcaaaa	gtataccgtg	360
atgatcgact	ccgaagaagg	cagatgcctt	gagcatggac	aactgtaaaag	aattagagcg	420
gcttaccagt	ctttataaaag	gaggatgaac	tgggaattttt	atttataacct	tttagcgtac	480
tctttatttt	ttctgtaagt	aagtttggtt	tcatcatgag	ggatgaagga	aaagatttga	540
tactgaaaac	taaactgaat	agttggttcc	tgaaatcttg	gactgtttat	gacctactgg	600
ctccttttaa	tagtaactga	aaactaaaaat	ggaatatattt	agttaacgct	tctacaagta	660
tttttcatttt	aaaagcttac	atgattccta	actaaagtgt	catgagaaaag	gattatcaca	720
cctgtagcaa	tttccagttt	tagtgattct	ccatttttttc	ccttgtcatg	taaataattta	780
tggaaatgatc	attttgtgta	catacaggtt	actgcttttt	tattttaaatt	cttttagtgt	840
ttagctccat	gagacacttc	agtttaaaatt	gatggaataa	atgtttatatg	acacattttac	900
attttcctta	tcaaggtgtc	aaatatgtgg	acttttaaca	atgaaactttt	ttcaaaaaga	960
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aatatcagtt	tgctattttag	ttttatgaat	tactatacat	atacatgcat	agaaatgaaa	1140
tgctatactg	ataaaatttta	aagaaaaatat	gaggaaaatgg	ctataaaatat	taaactaaaaa	1200
gggtcttcaa	cagtaaaagtg	cagttatgtc	atttaaaaatt	ccaataacttt	aaaggccacc	1260
aaattttgat	gtatatgtcc	ttgaagggtc	gctaaaatttt	atgaagagga	ctcacattttt	1320
cccccataga	aatttgcagt	ttcttggtga	tcattttaagc	aggatccaaa	gaagttcctt	1380
tacaaataag	taataagaaa	aatgagtact	aaaatacagc	tttgtgcctt	ttaaccctat	1440
gccaactcct	aaacatataa	gtagattaca	gtatacttat	ctgatcagag	catgayctgt	1500
ttggccacat	gcaagtgtga	gcagaaatag	agcagcacgt	agaatagtaa	cttaaagcaa	1560
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aaattgaagt	ttttgatgcc	tgtatactgg	atatgaaact	atttgatttc	tagtcttctg	1740
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atatctttga	tacttctttg	tgagtggag	aatgctagat	agggtggcct	tgttctttgt	1860
ttaagttttt	tttctgtaat	gtagtttaatt	tatggcatct	gttgaaataa	actgctaaaa	1920
tgacctctta	aaaatgttct	gttgatatccc	cttttccagg	tgaatcaata	gaaatgcctg	1980
attgaattag	taggttaaac	taaacacaat	actgtcatag	gaaaactgga	gagcttaacc	2040
aacttgctct	tagaaatggt	accttaaaaa	aaaaaaaaaaa	ggcgggccgc		2090

<210> 34
 <211> 1006
 <212> DNA
 <213> Homo sapiens

<400> 34						
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cggccgcctg	ttttgggtgg	cgctggacct	gctggacctg	ctggacatgc	aggccagcct	120
gtgggagccg	ccgcgctccg	ggctgcccgt	gtgggcccag	ggcctcacct	tcttctactg	180
ctacatgctg	ctgctggtgc	tgccgtgcgt	ggcgctcagc	gaggtcagca	tgcagggcga	240
gcacatagcg	ccgcagaaga	tgatgctgta	cccgggtgctc	agcctcgcca	ccgtcaatgt	300
ggtggccgtg	ctggcgcgcg	ccgccaacat	ggcgctgttc	cgggacagcc	gtgtctcggc	360
catcttcgtc	ggcaaaaacg	tgggtggcgct	cgccaccaag	gcctgcacct	tcctggagta	420
ccgccgcag	gtgcgcgact	tcccgccgcc	tgcgctatca	ctggagctgc	agccgccacc	480
cccgcgagcg	aactcggtgc	cgccgcgcgc	gcccgtgcac	ggccccgctg	ggcgccccc	540
catgtcctcg	cccacgcgtg	accccctgga	cacgtgacag	ggccgcgcgc	gcccccgaca	600
cgccccctggg	gcgcagagac	accgggttgg	cttggggcgc	gcggtttgca	tgggattggg	660
tgggggcggg	ctcccctagg	gacaggtgcc	tcgagtgcgc	gtgcctgggg	tcccgcggcc	720
gcttcttcat	ctcaggaate	tctcggaacc	cggatcctca	gccccgcctc	caccagcccg	780
ccccagsgcg	tgggtctgtt	tgggaggcct	gggcccggagc	agagcagagg	tgatccggcc	840
cctgcctgct	gggccgcccc	ggttggaagg	gagggcagtg	tgggcggaga	tctgctcctt	900
cggtgggggc	ctctggctca	gatttggggc	caaggaggcc	tctgtcattt	taaagactcg	960
tgtttacagt	tttgtaaaaa	aaaaaaaaaaa	aaaaaaaaaaa	ctcgag		1006

<210> 35
 <211> 1787
 <212> DNA
 <213> Homo sapiens

<400> 35						
gcagtgttgc	acttttctac	aattttggaa	aatcttggaa	atcagatcca	gggattatta	60

```

aagsracaga agagcaaaaag aaaaagacaa tagttgaact tgcagagaca ggaagtctgg 120
acctcagtat attctgcagt acctgtttga tacgaaaacc ggtgaggtcc aaacattgtg 180
gtgtgtgcaa ccgctgtata gcaaaatttg atcatcattg cccatgggtg ggtaactgtg 240
taggtgcagg caaccataga tattttatgg gctacctatt cttcttgctt tttatgatct 300
gctggatgat ttatggttgt atatcttact ggggactcca ctgtgagacc acttacacca 360
aggatggatt ttggacatac attactcaga ttgccacgtg ttcaccttgg atgttttggg 420
tgttcttgaa cagtgttttc cacttcattg ggggtggctg attactcatg tgtcagatgt 480
accagatata atgttttaggt attactacaa atgaaagaat gaatgccagg agatacaagc 540
actttaagtg cacaacaacg tctattgaaa gccatttcaa ccatggatgt gtaagaaata 600
ttatagactt ctttgaattt cgatgctgtg gcctctttcg tcctgttatc gtggactgga 660
ccaggcagta tacaatagaa tatgaccaa taticaggatc tgggtaccag ctggtgtagc 720
gacatcttat cctatgaagc atattgctga gtgggtgctg aaaattgtgt ctgtccgtgt 780
ctttctcaca ctccaatcca catcctttga acaagagcat gctatgtgta gggctaawgg 840
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actgcccatt tctgggaaga gtaaagatga taaaaaataa ttttaattgt tcttaattgt 960
gaaattcaca acatactcaa cttttgggtt ttgttctcac agtatttttc acaaaaaaag 1020
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aactaaattt atgttatttg gctaaatggt atgatgcagt ctagtacgag tattgcatct 1140
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gcaatgctga tatatttcta gttcagtga ataatgtgta gtaaccttac tctgagggtt 1380
tacggtctga taatgaagca cttgcatgag tatagtaagt catgtttttt tgttcaaatt 1440
taaaagccct gctaattgca tgacacacca catagaatgt atactagcag atactatcca 1500
gtgaagcata aattagaatt taatttgatg ttcaaaaaca gttccatttt taaggggtta 1560
gggtgtattt tcaagaaaag gcagaacaaa taatgcaaaa ttctcagtaa tagtgataca 1620
tggatatact tcctttttaa ttctcagctg caaaataatt gtagrcaaaa twatggcatt 1680
taactaaaga tggagcatga tctgtgtaca tagcacatgt gaataaaaaga aaagctgaca 1740
gtataaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaggg cggccgc 1787

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<210> 36
<211> 1201
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (29)..(29)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (48)..(48)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (63)..(63)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (1201)..(1201)
<223> n equals a,t,g, or c

```

```

<400> 36
taggcttttt caaaaagctt tttaggtgnc ctatagaagg tacgcctnca ggtaccggtc 60
cgnaattccc ggtcgacccc acgcgtccga aggaaactac ttgagraggg acccaacttt 120
ccgctatctt ttgggttcat tccaaatagt tttgtgccat tgaaaaactt gaccttcaaa 180
aaaatttgtt ttccagaata gaacacaata ggacagtgac tgcacagttg tgaaaaagga 240
agagaatcat taaagaaaaa gaaaaaagat ttaaagaccg ttgaaatcaa ttatcaagaa 300
cgtcctaaaa cacctatggc tttagacttt ttattgatcc agattatttt ccttgcattg 360
gggaaaaatat ctttcatatt tgtttgctgt aaagatgggt ttgcaagaat aagtcattg 420
caagacaaac tgccaatata aaagcccact gatactaatt atataatgag aaaaaaatgt 480
atccaactag gacacatata ttttgagtta tttggactga aagcttaaga aaacttggaa 540
aattctattt tgtgatctag tcaagccaca gttatcaaag gctacatttt cagtgtgaa 600

```

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taaatggatg agtaaaactca aatatgtatc acgtgtgctt tgtatcttaa gatgtgtttc 660
caagagcatc tgaaaattttg tttgtacatg tatcttgatc atttataaag ccactgtgat 720
ctataaatca agaaaatcca ttgtcataac cattttttaa agtcaaaaat taagacatcc 780
ttaattaaaa agtttcaaact ctagacacta aatgtgtgtg aatgtacaaa gaaaacaaac 840
cattgcttat gctgtttatat actagagaaa ttttgttttg cttgctgttt taacttgaca 900
gatgaaggac tttagttgaa ctctcatattg taagaactgt taataaaaagt tgtcaagtaa 960
aaagcgctat atctaaaaaag acttttatgaa cagttattct atcaactttt aaagggtttta 1020
aacctgccca gaaattacct tgggtatctga agtttccctc tgtctcctcc tctaattaag 1080
cttgttattt gtcatgcacc agcattggag ataataaaat ttcttggtct gtgtaaaaaa 1140
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1200
n

```

```

<210> 37
<211> 1896
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (444)..(444)
<223> n equals a,t,g, or c

```

```

<400> 37
ctgcaggaat tcggcacgag cggaaccggg gccggctgct gtgcatgctg gcgctgacct 60
tcatgttcat ggtgctggag gtggtggtga gccgggtgac ctgctcgctg gcgatgctct 120
ccgactcctt ccacatgctg tcggacgtgc tggcgctggt ggtggcgctg gtggccgagc 180
gcttcgcccc gcggaccac gccaccaga agaacacgtt cggctggatc cgagccgagg 240
taatgggggc tctggtgaac gccatcttcc tgactggcct ctgtttcgcc atcctgctgg 300
aggccatcga gcgcttcac gagccgcacg agatgcagca gccgctggtg gtccctgggg 360
tcggcgctggc cgggctgctg gtcaacgtgc tggggctctg cctcttccac catcacagcg 420
gcttcagcca ggactccggc cacngccact cgcacggggg tcacggccac ggccacggcc 480
tccccaaagg gcctcgctt aagagcacc gccccgggag cagcgacatc aacgtggccc 540
cgggcgagca gggccccgac caggaggaga ccaacaccct ggtggccaat accagcaact 600
ccaacgggct gaaattggac cccgcagacc cagaaaaccc cagaagtgtg gatacagtgg 660
aagtacaagt gaatggaat ctgttcagag aacctgacca tatggaactg gaagaagata 720
gggctggaca acttaacatg cgtggagttt ttctgcatgt ccttgagat gccttgggtt 780
cagtgattgt agtagtaaat gccttagtct tttacttttc ttggaaagg tttctgaag 840
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atagtactca tgcacagtt tatgaggctg gtccttgctg ggtgctatat ttagatccaa 960
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aacttcgaaa tgttgaaagga gttgaggaag ttcattgaat acatgttttg caacttgctg 1140
gaagcagaat cattgccact gctcacataa aatgtgaaga tccaacatca tacatggagg 1200
tggctaaamc cattaaagac gtttttcata atcacggaat tcacgctact accattcagc 1260
ctgaatttgc tagtgtaggc tctaaatcaa gtgtagttcc gtgtgaactt gcctgcagaa 1320
cccagtgtgc tttgaagcaa tgttgtggga cactaccaca agccccttct ggaaaggatg 1380
cagaaaagac cccagcagtt agcatttctt gtttagaact tagtaacaat ctagagaaga 1440
agcccaggag gactaaagct gaaaacatcc ctgctgttgt gatagagatt aaaaacatgc 1500
ccaaacaaac aacctgaatc atctttgtga gtcttgaaaa agatgtgata tttgactttt 1560
gctttaaact gcaagaggaa aaagactcca ctgaaattct aagtttgcca agtagtgtaa 1620
ttgaagtcct tgtctggtca cacagtttaa ttctattttt gtaagaacat aatgggactg 1680
cataacagag ttctatatta caattttgtg attattagta cagagtacag ctatgctgtg 1740
actgttttgg aaagccagtt ttaacactat gttacatttt tgtttaaagt aagttaaacc 1800
ttatataaca taatgacatt tgatttctgg atttttccca tgataaaaat tagggggata 1860
aataaaattg ttactggaat ttctctgcaa aaaaaa
1896

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```

<210> 38
<211> 1152
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1145)..(1145)
<223> n equals a,t,g, or c

```

```

<400> 38
agttccagga taaaaacaga ccgtgtctca gtaactggcc agaggatagc gatgtcctct 60
acatcgtgtc tcagttcttt gtagaagagt ggcggaatt tgtagaaaag cctacaagat 120
gcagccctgt gtcacagttt gggaacagtg ctcttttttg tccccacggg ggcctcatgt 180
ttacatttgc ttccatgacc aaagaagatt ctaaacttat agctctcata tggcccagtg 240
agtggcaaat gatacaaaag ctctttgttg tggatcatgt aattaaatc acgagaattg 300
aagtgggaga tgtaaaccct tcagaaacac agtatatttc tgagcccaaa ctctgtccag 360
aatgcagaga aggcttattg tgtcagcagc agagggacct gcgtgaatac actcaagcca 420
ccatctatgt ccataaagtt gtggataata aaaaggtgat gaaggattcg gctccggaac 480
tgaatgtgag tagttctgaa acagaggagg acaaggaaga agctaaacca gatggagaaa 540
aagatccaga ttttaataca agcmatgggt gaacaaagcg gcaaaagata tcccatcaaa 600
attatatagc ctatcaaaag caagtatttc gccgaagtat gcgacataga aaagttcgtg 660
gtgagaaaagc acttctcgtt tctgctaata agacgttaaa agaattgaaa attcagatca 720
tgcattgcat ttcatgtgct ccttttgacc agaatttgct aattgatgga aagattttta 780
gtgatgactg tgccacccta ggcacccttg gcgtcattcc tgaatctgtc attttattga 840
aggctgatga accaattgca gattatgctg caatggatga tgcatgcaa gtttgatgca 900
cagaagaagg gttaaagggt actggtcttc ttggacatta atctttgaat acttgctgac 960
tgctaagaaa tgaccagagg ggaagaggag tttagacatg tagggcatta aagcaaaggt 1020
ggatttaaga attaaacat tacatgcccc ttccaaaagg cagaaatcca ttcaaactg 1080
actgtcccaa atgccttatg tcaataaagg cagattgcac tgatggaaaa aaaaaaaaaa 1140
aaaanactcg ag                                     1152

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```

<210> 39
<211> 1017
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (822)..(822)
<223> n equals a,t,g, or c

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```

<220>
<221> misc_feature
<222> (994)..(994)
<223> n equals a,t,g, or c

```

```

<400> 39
gaacaaagtt cagtgactga gagggctgag cggaggctgc tgaaggggag aaaggagtga 60
ggagctgctg ggcagagagg gactgtccgg ctcccagatg ctgggcctcc tggggagcac 120
agccctcgtg ggatggatca cagggtgctg tgtggcggtc ctgctgctgc tgctgctgct 180
ggccacctgc cttttccacg gacggcagga ctgtgacgtg gagaggaacc gtacagctgc 240
agggggaaaac cgagtccgcc gggcccagcc ttggcccttc cggcggcggg gccacctggg 300
aatctttcac catcacgcgc atcctggcca cctatctcat gtgccgaatg tggccctcca 360
ccaccaccac caccctcgcc acamccctca ccaccwccac caccaccacc acccccaccg 420
ccaccatccc cgccacgctc gctgargctg ctgtcgccgg tgctgtgga cagcagctgc 480
ccctgcccctc ccattctgtt ccaggacaag tggaccccat gtttccatgt ggaaggatgc 540
atctctgggg tgaacgargg gaacaataga ctggggcttg ctccagctgc atttgcatgg 600
catgccccag tgtactatgg cagcagagaa tggaggaaaca ctgggtctgc agtgctgaag 660
ggtttgggga gtggagagca aggggtgctc ttccggggctg gacagcccggt cttgtgacag 720
tgactcccag tgagccccag aaatgacaag cgtgtcttgg cagagccagc acacaagtgg 780
atgtgaagtg cccgtcttga cctcctcatc aggtgctgac angcctctgg cgggcagggc 840
actgggagag gccctgagaa tgtccttttg gtttgagaaa ggcagtgtga ggctgcacag 900
tcaattcatc ggtgccttag tccaagaaaa taaaaaccac taagaaaaaa aaaaaaaaaa 960
aatgaccctc gagggggggc ccggtaccca attngcccta tgaagaggcg aacagga 1017

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```

<210> 40
<211> 1777
<212> DNA
<213> Homo sapiens

```

```

<400> 40
ggcacgaggt ccccgacgcg ccccgcccaa cccctacgat gaagagggcg tccgctggag 60
ggagccggct gctggcatgg gtgctgtggc tgcaggcctg gcaggtggca gccccatgcc 120
caggtgccct cgatgctac aatgagccca aggtgacgac aagctgcccc cagcagggcc 180
tgcaggctgt gcccggtggc atccctgctg ccagccagcg catcttctct cagggaacc 240

```



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gcatctcgca tgtgccagct gccagcttcc gtgcctgcgg caacctcacc atcctgtggc 300
tgcactcgaa tgtgctggcc cgaattgatg cggctgcctt cactggcctg gccctcctgg 360
agcagctgga cctcagcgat aatgcacagc tccggtctgt ggaccttgcc acattccacg 420
gcctggggccg cctacacacg ctgcacctgg accgctgcgg cctgcaggag ctggggcccg 480
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<210> 41
<211> 1003
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (990)..(990)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1002)..(1002)
<223> n equals a,t,g, or c

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<400> 41
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accaaattggg cacaaaagaa ccaggatacc aaaagttaag ctcatacagc tgcaaaccat 180
atcacttctt ggtaacaatg cagacctcat aaacctaaag aagagaaaaga aaagaaaact 240
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tctctgtcat gagactgtgt gtgacagggc cacctgtctt tttttttttc ttaaattttt 480
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<210> 42
<211> 1201
<212> DNA
<213> Homo sapiens

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<400> 42

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gaagattggc	tatggcacct	ctgcttcttg	ctataggcct	gaggttctag	ggcttcttat	180
gcctcatcct	ctttaagcca	aagggatagc	cagagcatct	tgatggcaga	agtgaataaa	240
gatgagcccc	actgctcggg	tacattttca	gccccgtggt	gtgtcatgtc	tactgatatc	300
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cagtgaagcc	atgacaagag	tgaggatgca	ccaggcatg	aagaattggg	gccaacagtt	420
caatctacca	taccttctct	cacctggaat	tccagatgct	tgagctacga	aacttagatg	480
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ctgcccttct	taaaaacaga	aaacaaaaag	tgtaagatca	tcattgcttc	ccacatagga	1140
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c						1201

<210> 43

<211> 1176

<212> DNA

<213> Homo sapiens

<400> 43

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ctctcctgcc	aatagcaaca	atgcaaaagc	ttaccctctc	tcccgtttcc	ccagccccat	180
cttcatgtcc	tgtggatggt	gcttcatcca	catttataat	ttactcctgt	ctctctgcta	240
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gttgctcaat	tatttattct	aaatatgttg	ttgggctttg	ctttatttac	cctgtttgca	360
tgtcttggtg	atgtcttttc	agtccttatg	gccccatcag	ttccttatcc	atgaccacga	420
gaggccccag	tgatattttg	acttttcaaa	tgtggtgaat	aagtgagagt	tgtttggtga	480
gttaactgtg	atttttaata	ttctgattgt	tgtgaggcac	ttttctaggt	gtttgatttc	540
ttgatctggt	ttcttctatg	ccaattgatt	aaacagtgtc	ttccacagtt	tgctaagggtg	600
atgatgggtg	ctggttgttg	gttttggttg	gttgaataaa	gccctgatgc	tgggagttca	660
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<210> 44

<211> 569

<212> DNA

<213> Homo sapiens

<400> 44

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cgttccctgac	aagtcagggt	ttcagattgc	agtccttggt	caacgtcagg	attcttacag	180
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ctagggggccc	atctgtccct	agccacctcc	agggcagtc	cgttttgcag	cgggatttgg	420
caaaccccc	tccaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	480
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	540
aaaaaaaaaa	aaaaaaaaaa	ggggggggcc				569

<210> 45
 <211> 986
 <212> DNA
 <213> Homo sapiens

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<400> 45
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gtgttgaaagc tccagccgga gggctggagc ccatctactc tctggagctg cgcttccgtg    180
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gccctgcccc cctctctgctc ctgcctctgc agccccgatg cccggcccc gcacggctgg    300
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tgttcgtgaa ctttgccgac ctctttctgc ctttcccgca gcctccagag ggggcccgggc    420
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ctagcaagat ccctgagacg gggtaaagta taataaacag aaatgtattg gctcagaaaa    960
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<210> 46
 <211> 1540
 <212> DNA
 <213> Homo sapiens

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<400> 46
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ctctcatttt cttcctcgcc tggcttgtga agaactgtgt tattgtgtgt atcattgaaa    180
catttgcaga aatcagagta cagtttcaac aaatgtgggg atcgagaagc agcactacct    240
caacagccac caccagatg tttcatgaag atgctgctgg aggttggcag ctggtagctg    300
tgggatgtca acaagcccca gggacgcgcc ccagcctgcc tccaggtgca gtacaatgac    360
atTTTTaaaa atcgcccagc aaaggtcttt gaattttatt tcatccaaga aaatccacag    420
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<210> 47
 <211> 792
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (759)..(760)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (774)..(774)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (779)..(779)

<223> n equals a,t,g, or c

<400> 47

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cccacaaaac	aaaatcacat	tctcactatg	ccctgttcat	tcttcaggac	tatcttcttg	240
gaaactttta	ctacataccc	ctctccccct	aatctgagtg	tctgctttgc	tcaggtagca	300
tgtgttcact	ggataaatcc	ttgattcctg	gcactgaggg	aggggtttctg	ttcccaggaa	360
gcagaggcat	actattctgt	gaaggattga	ctgagtttct	cctaatacca	agcagtatct	420
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<210> 48

<211> 1497

<212> DNA

<213> Homo sapiens

<400> 48

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ttcatataat	aaagatgaag	tgagagaaca	ttagagggaac	caaggccatg	tgatgggtaca	180
cgtctgacgt	tttttccctt	cggttacatg	tccgtatctc	ctctttcccc	tttttccccct	240
ttgtcttcat	ttggttcccc	tccctatagg	gagtttagga	caagaagagg	ctaaagtctt	300
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ttattagcat	aacgaagcca	tcagcattgc	atcaagcggg	tcctcgtacc	cttttccctg	420
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<210> 49

<211> 1340

<212> DNA

<213> Homo sapiens

<400> 49

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cccagctact	cgggaggctg	aggcgggaga	atcgattgga	cccaggaggc	ggagggtgca	1260
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aaaaaaaaaa	aaaaaaaaaa					1340

<210> 50
 <211> 1539
 <212> DNA
 <213> Homo sapiens

<400> 50						
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cagcccragg	aagggaacca	ataacctttc	aaaacscaaa	ctgctkcctg	cggtgagggc	180
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<210> 51
 <211> 1423
 <212> DNA
 <213> Homo sapiens

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<210> 52
<211> 1364
<212> DNA
<213> Homo sapiens

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<400> 52
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<211> 2288
<212> DNA
<213> Homo sapiens

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<220>
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<223> n equals a,t,g, or c

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<220>
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<222> (1279)..(1279)
<223> n equals a,t,g, or c

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<220>
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 <222> (1798)..(1798)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
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<210> 54
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 <212> DNA
 <213> Homo sapiens

<220>
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 <223> n equals a,t,g, or c

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 <222> (8)..(8)
 <223> n equals a,t,g, or c

<220>
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 <223> n equals a,t,g, or c

<220>
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 <222> (21)..(21)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (29)..(29)
 <223> n equals a,t,g, or c

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 <223> n equals a,t,g, or c

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 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1496)..(1496)
 <223> n equals a,t,g, or c

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<210> 55
 <211> 1357

<212> DNA
<213> Homo sapiens

<400> 55
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<210> 56
<211> 1989
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (31)..(31)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (161)..(162)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1702)..(1702)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1943)..(1943)
<223> n equals a,t,g, or c

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<210> 57

<211> 2543

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (2538)..(2538)

<223> n equals a,t,g, or c

<400> 57

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<210> 58
 <211> 777
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (766)..(766)
 <223> n equals a,t,g, or c

<400> 58						
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<210> 59
 <211> 879
 <212> DNA
 <213> Homo sapiens

<400> 59						
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<210> 60
 <211> 1161
 <212> DNA
 <213> Homo sapiens

<400> 60						
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<210> 61
 <211> 687
 <212> DNA
 <213> Homo sapiens

<400> 61						
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<210> 62
 <211> 518
 <212> DNA
 <213> Homo sapiens

<400> 62						
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<210> 63
 <211> 911
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (911)..(911)
 <223> n equals a,t,g, or c

<400> 63

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<210> 64
<211> 963
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2)..(2)
<223> n equals a,t,g, or c

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<210> 65
<211> 1001
<212> DNA
<213> Homo sapiens

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<400> 65
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<210> 66
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 <212> DNA
 <213> Homo sapiens

<400> 66						
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<210> 67
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 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (11)..(11)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (690)..(690)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (719)..(720)
 <223> n equals a,t,g, or c

<400> 67						
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<210> 68
 <211> 865
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (445)..(445)
 <223> n equals a,t,g, or c

<400> 68						
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<210> 69
 <211> 1150
 <212> DNA
 <213> Homo sapiens

<400> 69						
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<210> 70

<211> 1398

<212> DNA

<213> Homo sapiens

<400> 70

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<210> 71

<211> 1557

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1541)..(1541)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1549)..(1549)

<223> n equals a,t,g, or c

<400> 71

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<210> 72
 <211> 1163
 <212> DNA
 <213> Homo sapiens

<400> 72						
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<210> 73
 <211> 1486
 <212> DNA
 <213> Homo sapiens

<400> 73						
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<210> 74
 <211> 1553
 <212> DNA
 <213> Homo sapiens

<400> 74						
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<210> 75
 <211> 1650
 <212> DNA
 <213> Homo sapiens

<400> 75						
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<210> 76
<211> 2150
<212> DNA
<213> Homo sapiens

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<220>
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<222> (874)..(874)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (1198)..(1198)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (1201)..(1201)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (1266)..(1266)
<223> n equals a,t,g, or c

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<400> 76
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 <223> n equals a,t,g, or c

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 <212> DNA
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<210> 80
 <211> 1230
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (1223)..(1223)
 <223> n equals a,t,g, or c

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<210> 81
 <211> 1139
 <212> DNA
 <213> Homo sapiens

<400> 81						
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 <212> DNA
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<211> 714
<212> DNA
<213> Homo sapiens

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<220>
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<223> n equals a,t,g, or c

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<220>
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<223> n equals a,t,g, or c

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<220>
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<210> 84
<211> 1097
<212> DNA
<213> Homo sapiens

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<400> 84
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```

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tttgtttgaa tttattaatc accatgatac ctctccctcc ctttgtccac atgtaacttg 1020
ttcttggggc tctaccagat ggctgaagag taaatccttt ctacctctga aaaaaaaaaa 1080
aaaaaaaaaa aaaaaaaa                                     1097

```

```

<210> 85
<211> 1931
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1904)..(1904)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (1914)..(1914)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (1921)..(1921)
<223> n equals a,t,g, or c

```

```

<400> 85
ggcacgagcg gcacgagcgg atcctcacac gactgtgata cgattctttc cagcggcttc 60
tgcaaccaag cgggtcttac ccccggtcct ccgcgtctcc agtcctcgca cctggaaccc 120
caacgtcccc gagagtcccc gaatccccgc tcccaggcta cctaagagga tgagcgggtg 180
tccgacggcc ggggcagccc tgatgctctg cgcgcgccac gccgtgctac tgagcgtca 240
gggcggaccc gtgcagtcca agtcgcgcgc ctttgcgtcc tgggacgaga tgaatgtcct 300
ggcgcacgga ctctgcagc tcggccaggg gctgcgcgaa cacgcggagc gcacccgcag 360
tcagctgagc gcgctggagc ggcgcctgag cgcgtgcggg tccgcctgtc agggaaaccga 420
ggggtccacc gacctcccgt tagccccctga gagccgggtg gacctgagg tccttcacag 480
cctgcagaca caactcaagg ctacagaacag caggatccag caactcttcc acaaggtggc 540
ccagcagcga cggcacctgg agaagcagca cctgcgaatt cagcatctgc aaagccagtt 600
tggcctcctg gaccacaagc acctagacca tgaggtggcc aagcctgccc gaagaaagag 660
gctgcccagc atggcccagc cagttgaccc ggctcacaat gtcagccgcc tgcaccggct 720
gccaggggat tgccaggagc tgttccagggt tggggagagg cagagtggac tatttgaaat 780
ccagcctcag gggctctccg cattttttggt gaactgcaag atgacctcag atggaggctg 840
gacagtaatt cagaggcgcc acgatggctc agtggacttc aaccggccct gggaagccta 900
caaggcgggg tttggggatc cccacggcga gttctggctg ggtctggaga aggtgcatag 960
catcacgggg gaccgcaaca gccgcctggc cgtgcagctg cgggactggg atggcaacgc 1020
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cactgtcacc gtggccggcc agctgggcgc caccaccgtc ccaccagcg gcctctccgt 1140
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agcctcctag cgtcctggct gggcctggtc ccaggcccac gaaagacggg gactcttggc 1440
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gctgcatgcy ttgctcctg agatcgaggc tgcaggatat gctcagactc tagaggcgtg 1620
gaccaagggg catggagctt cactccttgc tggccagggg gttggggact cagagggacc 1680
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agggcttgtg tgggtcgaga gcgcctcat ggtgctgggt ctgttgtgtg taggtccctt 1800
ggggacacaa gcaggcgcca atggtatctg ggcggagctc acagagtctt tgggaataaaa 1860
gcaacctcag aacaaaaaaaa aaaaaaaaaa aaaagggcgg ccgncctaaa aggnccaag 1920
nttacgttac g                                     1931

```

```

<210> 86
<211> 1092
<212> DNA
<213> Homo sapiens

```

```

<400> 86
aggccatgac ctccctcagg atgcctggct gcgctgggtg ctggctgggg cgctgtgtgc 60

```



```

cgggtggctgg gcagtgaact acctcccgtt cttcctgatg gagaagacac tcttcctcta 120
ccactacctg cccgcactca ccttccaaat ccttctgctc cctgtggtcc tgcagcacat 180
cagcgaccac ctgtgcaggt cccagctcca gaggagcatc ttcagcgccc tgggtggtggc 240
ctggtactcc tccgcgtgcc acgtgtccaa cacgctgcgc ccactcacct acggggacaa 300
gtcactctcg ccacatgaac tcaaggccct tcgctggaaa gacagctggg acatcttgat 360
ccgaaaacac tagaacaaga gtgtggcaaa gaacaccgtt gctgggggtcg ggacgagggt 420
gaagggtcct ggtcaatgta cgtaatgagc aggggtgggc ccacgctggg aggacacggg 480
ctgggctgag cagggcctct agtggaacac atgggggtct cattgaaaag ctctctgatg 540
agcacctcct tttgtgcaaa gttaattttt tctcgacaat aaagatatc cgtgtcttca 600
cccctgaact aagacacagg gagtatttca gaaggccaag cgtaggagtc atcgacaacg 660
aaaaagccga gaaccaggg ccagcagttg gagccttcag cagaaccagg gcctggtcct 720
tgctaattgc tgcagggtgg agtttgatct ggcagaccgg atcctccttc atgaacacc 780
agcaacctga gcaagtcccg gccctgccct cagcgagccc ggcaggcgct ccgggacagc 840
tcagtgttgg agggccacct gaaccacgag ccagggtctg ggcttgcatg tcattgtcta 900
tgacagcgtc aagactggcc cttggcacgg tgctgtgtgg aaacctccc ctctgagact 960
ccactgagac gtgctgagtg gaaatcttcc tcgtcagtg tcaagggtg tcatccatac 1020
agctccatgc ctttgtcttt tttaaatgta attaaaaaag gaaccaactg gaaaaaaaaa 1080
aaaaaaaaaa aa 1092

```

```

<210> 87
<211> 578
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (576)..(576)
<223> n equals a,t,g, or c

```

```

<400> 87
gggacatctg ccggctggag cgggcagtgt gccgcgatga gccctctgcc ctggcccggg 60
cccttacctg gaggcaggca agggcacagg ctggagccat gctgctcttc gggctgtgct 120
ggggggcccta cgtggccaca ctgctcctct cagtcctggc ctatgacag cgcccgccac 180
tgsggccttg gacactgttg tccctcctct ccctaggaag tgccagtga cgggcagtgc 240
ccgtagccat ggggctgggc gatcagcgt acacagcccc ctggagggca gccgccaaa 300
ggtgcctgca ggggctgtgg ggaagagcct cccgggacag tcccgcccc agcattgcct 360
accacccaag cagccaaagc agtgtcgacc tggacttgaa ctaaagggaagg gcctctgct 420
gactcctacc agagcatccg tccagctcag ccattccagcc tgtctctact gggccccact 480
tctctggatc agagaccctg cctctgtttg accccgcact gactgaataa agctcctctg 540
gccgttttaa aaaaaaaaaa aaaaaaaaaa ggggggncc 578

```

```

<210> 88
<211> 699
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (661)..(661)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (694)..(694)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (696)..(696)
<223> n equals a,t,g, or c

```

```

<400> 88
tcgacccacg cgtccggaag cccccaacag ccacgctcac cactgctcgg acgaggccga 60
ccacagacat gagtgcaggt aagtggctcc tgctggtgat cttcagggat ttgggatgct 120
gagtttccag gacgtctccg cacttgagga gtggagagga gggaaggatc tggagcctac 180
tcacagcctg ctctgtctgt tgctctcttg tgatcttcta gtggttcttg gcgaaatcag 240

```

gaaaaggcag	atggagggtt	gtgtatggaa	agggtagggga	tggaaatccgg	agaaatgggtt	300
tgcgggtctt	gctctgcctg	taacaacccg	agtgcacttg	ggcaagtccc	tgtccctctc	360
tgggsctcag	tttctccacc	tgtatttggg	raggggttgg	atgggcaactg	aagtccctgtc	420
cagctctgac	cttctgtgaa	gtgcaactgt	gagcagctct	ggaagcttct	gttccagcca	480
tagccacaca	gaggagcagc	aggcaggcat	caggcccaaa	ctgctgctct	ctgatgggct	540
tggaccccat	gaaagtgggg	cctgctggat	gcatttctctg	ggattctgtg	gaagctgatc	600
aggttgctgg	ggcaagtggg	ggcaggatag	aagtgaaggg	ctgtgggatg	gagaacctca	660
naagactcca	tctgggggtcc	gggaaaggac	agananggt			699

<210> 89
 <211> 1126
 <212> DNA
 <213> Homo sapiens

<400> 89						
ggcasagcca	accctgagga	ctcagtgtgc	atcctggaag	gcttctctgt	gactgcactt	60
agcattcttc	agcacctggg	gtgccacagc	ggagcagttc	gtctccctat	tactgtcagg	120
agtgggggca	gattctgctg	ctggggaagg	aaacaggagc	ctgggttcaca	gyttagtgat	180
ggagatatga	cctcagccct	aaggggggtt	gctgatgacc	aaggacagca	cccactgttg	240
aagatgcttc	ttcacctgtt	ggctttctct	tctgcagcaa	caggtcacct	tcaagccagt	300
gtcctgacct	agtgccttaa	ggttttgggt	aaattagccg	aaaacacttc	ctgtgatttc	360
ttgccagggt	tccagtgtgt	gttccaagtg	ctgcccagg	gcctcagccc	agagacacct	420
ctgcctagcg	tgtgtgctgg	tgttgagctc	ctctccctgc	tggcggacca	cgaccagctg	480
gcacctcagc	tctgttccca	ctcagaaggc	tgccctcctg	tgctgctgta	catgtacatc	540
acatcacggg	ctgacagagt	ggccttgagg	acacaatggc	tccagctgga	acaagagggtg	600
gtgtggctcc	tggctaagct	tgggtgcaaa	gagccccttg	ccccagtc	ctggctccaa	660
ctgccagtgt	aatgtggagg	tgggtcagagc	gctcacgggtg	atgttgacac	gacagtggct	720
gacagtgcgg	agggcagggg	gacccccaa	gaccgaccag	cagaggcgga	cagtgcgctg	780
tctgcggggac	acgggtgctg	tgctgcacgg	cctatcgcag	aaggacaagc	tcttcatgat	840
gcactgcgtg	gaggtcctgc	atcagtttga	ccaggtgatg	ccgggggtca	gcatgctcat	900
ccgagggcctt	cctgatgtga	cggactgtga	agaggcagcc	ctggatgacc	tctgtgcccgc	960
ggaaaccgat	gtggaagacc	ccgaggtgga	gtgtggctga	ggccctgagt	gtccagccac	1020
atggtggcac	cagcaccact	cctttcctta	ccacatcaac	tgattaaagc	agtgaccagc	1080
aggaactgcc	cagagaactg	gaaaaaaaaa	aaaaaaaaaa	ctcgag		1126

<210> 90
 <211> 1037
 <212> DNA
 <213> Homo sapiens

<400> 90						
agggttgatg	ggttatgggtc	aggagtccca	gctggggcca	ccacctcctc	aggaaggcgg	60
gtgaggttgg	tgtgagactg	acgggtgcctc	ctcatgtccc	cttggagcgc	cccaccccac	120
atctcccggc	ctcgggtcct	tgccctggccc	agcatgagag	gtgcttcata	ggaacggagg	180
gaggacatgt	ygggacagct	cgatgctcgg	cctgctgctg	ctctgcaccc	ccagggcctg	240
gctcaccctc	tctggacctg	tctgtctcca	aggaagggga	ccctctgagg	tcccacagag	300
gccaccccag	ytgtgggtcg	tgagcatctc	tgtcttgagc	ggacagcatc	gtggccgagc	360
tggaccgaga	gatgagcagg	agcgtggacg	tgaccaaac	camcttcctg	ctcatggccg	420
cctccatcta	tctccacgac	cagaaccggg	atgccgccct	gcgtgcgctg	caccaggggg	480
acagcctgga	gtgggtgagt	gcctccctgc	tctggggccag	cccaggagg	caagtgcctc	540
ctgccacatc	tccaggctgc	gcacggcctc	gctggctgtc	gtcatgggag	cagagaaagg	600
tgggtgctgaa	atgaggccct	ggcctgctgt	ccaggtcca	gctcccctgc	ccagtgtggg	660
aggcactccc	atctgcgcac	caggctgcgg	atccaaggac	acggtgcccc	rgctgcaacc	720
ctctgttccc	aagggcagag	cagaaagcgg	ctttgtctct	gtcgggtttc	tgtgtcccca	780
ccccccacga	agccttctgt	gtctcggccc	tggggccagt	ctctcaggcc	tccccggggc	840
ccccataccg	gccctcctcc	agggccctct	gggggtgggg	tgctgaagcc	ctgcaagggt	900
ggtgcccccc	tccaccctag	gatgtgactc	cggggccatgt	ccagggcact	ggtcacagaa	960
agtgtgtcag	ttcttcccgc	tgagctgtcc	ctgcagtgcc	tgccttccac	tgtgagttgc	1020
aagctgggca	tttcatg					1037

<210> 91
 <211> 1316
 <212> DNA
 <213> Homo sapiens

<400> 91

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ggcacgagggc ctggcgcgct gcgggcgctcgc tcacccgctc ccgaggaagg gcagtggggcc      60
ccgccgccgc ctcccaatgg cgaggctgcg ggattgcctg ccccgccctga tgctcacgct      120
ccggtccctg ctcttctggg ccctgggtcta ctgctactgc gggctctgcg cctccatcca      180
cctgctcaaa cttttgtgga gcctcgga cagaccttcc ggcggcccg      240
ccgggagcac cctcccgct gcctgagcga cccctccttg ggcacccact gctacgtgcg      300
gatcaaggat tcagggttaa gatttcaacta tgttgctgct ggagaaagag gcaaaccact      360
tatgctgctg cttcatggat ttccagaatt ctggtattct tggcgttacc aactgagaga      420
atttaaaagt gaatatcgag ttgtagcact ggatttgaga ggttatggag aaacagatgc      480
tcccattcat cgacagaatt ataaattgga ttgtctaatt acagatataa aggatatttt      540
agattcttta gggatatagca aatgtgttct tattggccat gactgggggg gcatgattgc      600
ttgggctaatt gccatctggt atcctgaaat ggtgatgaag cttattgtta ttaacttccc      660
tcatccaaat gtatttacag aatatatttt acgacaccct gctcagctgt tgaaatccag      720
ttattattac ttcttccaaa taccatgggt cccagaattt atgtttctca taaatgattt      780
caagggtttt aaacatctgt ttaccagtca cagcactggc attggaagaa aaggatgcca      840
attaacaaca gaggatcttg aagcttatat ttatgtcttt tctcagcctg gagcattaag      900
tggcccaatt aaccattacc gaaatatctt cagctgcctg cctctcaaac atcacatggg      960
gaccactcca acactactac tgtggggaga gaatgacgca ttcatggagg ttgagatggc      1020
tgaagtcaca aagatttatg ttaaaaaacta tttcaggcta actattttgt cagaagccag      1080
tcattggctt cagcaagacc aacctgacat agtgaacaaa ttgatatgga catttctaaa      1140
agaagaaaca agaaaaaaag attgactttt ctttatcttc tatgaagggg ctgtaatgaa      1200
atctctaaat aatttttaaa aattgttcat caacttcttt atgttttatt agaaaaaaac      1260
tggtttaatg tgctttatca taaataaata tcctgacaaa tggatttgaa aaaaaa      1316

```

```

<210> 92
<211> 1021
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (971)..(971)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1004)..(1004)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1008)..(1008)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1010)..(1010)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1018)..(1018)
<223> n equals a,t,g, or c

```

```

<400> 92
ggccgccctt tttttttttt tttttttttt tttttttttt ttttggcctt agtcatcatt      60
tcttgaataa tacaaatagg taagacaatt ttacaaaaat tgtgctatag aataggatat      120
ttgtgacttt ttagatgaaa tattagagct accccaccca gccacagata gcactgtaac      180
actttcttaa tagagttag gttcaaatga taaagtcac acactggcta aaaagttcaa      240
gttcagagtt tcaatcaatt ttcatgttaa ggatgaaact gagttttact caacttgtgt      300
ctttttaaga gaatgggcca cctccacac atcctttctc ttggactttt ttttaacact      360
ctaattgttct gtatcacgaa atcagatggc caaaacaaaa tctacagggtg ctttaaaaaa      420
gcaagtcccc aagtgattgt taccataacc aaaatgagaa ttgctgctat aatctgttct      480
tactggamtg gccakgcca tcttgggact aggtattaaat tgcaattaaa ttckgcagtg      540
tacaaaaatt ttgtcagctt gyctagaaaa agaaagagaa ctctttcatg gtagagcagt      600
tactgtgctc acgttgcttt ttctaaaaac caacctactt tcaaacaaag aatgaggaaa      660
tttgtagtaa atttttaata tgagtcacgg aaatattaag ataatagcat gtgtgggcaa      720

```

```

taataagtat gccaaagaaat aaagagtaat atacaaaaca atcaaacatt attacatttg 780
gctacgaggt tcctaataaa cagggcacaaa taaatagtga aatataataa aatcggtatc 840
atctgataaa aggcctgcatg gtactttttcc caaacgtaat ggatgacttc aacacatttt 900
cttattaaat atttcaaatt gtttcttcat gtgaaaactg tcttattaat tgtaaaaagg 960
atgtaacttg nataggcatg ctcaacaggg gtaagagtaa ttcngtangn gccccctnga 1020
t 1021

```

```

<210> 93
<211> 1260
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (32)..(32)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (314)..(314)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (356)..(356)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (590)..(590)
<223> n equals a,t,g, or c

```

```

<400> 93
tttttttttt tttttttttt tttttttttt tntttttttt tttttttttt tttttttttt 60
tttttttttt tttttttttt aatttcacct gtttccttta ttatgtggct acttgaaaat 120
tttaaaatta catatgtagc tcacactata aaacacagat tagaaatatt gtatagcact 180
gacctagaaa cctccattta ggtaaaacat cttaaccctt ttggaagcaa aatatgttaa 240
ataacagcat aaactcccac caagaaaatc ctcaccttcc tcctttcaac acatttatta 300
tatacagctg tcantgcatt gtcaatctgc caaatggctc tatgttccaa caggngtgga 360
gtagtccccct gctcacacca gccttcacaa tacttcccat gtcttccctg ttaacctctc 420
tccaccagc acccaggctc ccaactctcc tggctgcctc cagccctcag ctggcaccac 480
tgacatgctg tttccagtac ctttttcttc tttctgcac ctccttgggg gacatacatc 540
cctcatctcg tgacttcagc tgtcacataa attcaaagt ttccagaactn ttttttttac 600
ctcctacatc tgtcagttta aatgtcagga tattttact tcagtaaagc cctaaaaaga 660
caaatctatg tactttttaa gaataaaaaga aatgactggc tgcagctcaa acctacaact 720
gcttgcgaaa ctctacaatg tctggcagat gctagaaaga aggggatcaa gacagagcac 780
acttggcgctg gtatgctatc tatagaaaat gttaaaataa aattaagtaa tctaggtttc 840
ctctctttat tttctacatc tactctctga agaggggcaat aaataaggaa atgtcccaaa 900
gagggacaaa ttaagtccca aaataacaca aaattgggca aatcccagtc atgaagaaag 960
aacagagggt cttaaattgg gacacacaga ggcaggctct cagggtctagg aatctctgaa 1020
catatgtgca aaattctggg tatgtgtgca tatgttatat aacaaagcga aggggtccata 1080
tagctttcat cgcatttcaa aggggtctagc actgaaataa ggactactgc tatgtgactt 1140
aaaaaatgaa actcaggctg ggcgcagtgc tcacgcctgt aatcccagca ctttgggagg 1200
ccgaggcaag cagatcacct gagacgagga gtttgagacc cgccctggccg gacgcgtggg 1260

```

```

<210> 94
<211> 990
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (4)..(4)
<223> n equals a,t,g, or c

```

```

<220>

```

<221> misc_feature
 <222> (916)..(916)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (958)..(958)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (971)..(971)
 <223> n equals a,t,g, or c

<400> 94
 gcangagagc taccaagtgg ccgagctggc ttatraccct agggcagtct gcccccaaaa 60
 cccatctact tgggttgccc cagaatgggt tggcttgga gaacttgcc tgcactcc 120
 catttagact ttattagtgg agccctctc ttgacttttg cctatttct tgtcttcag 180
 gtgtgcccctg tgattaataa atggctctac aacctggacc agcatgtgg taaagagttg 240
 attagtaagt gctggagggt ggaagggaca ggaacactcc agaagaaagc tcagaaccct 300
 ccctcaccct ttgtatttca tttcccctta cctcactctg gcacttctcc tagaccaaaa 360
 atctctttcc tgctgaagta gaatgggtccc taataataac aaccttaata ataaactcag 420
 ctgacattaa ctgagggagc ccagtgtgcc aacatgaagc actgtgcctg cactagcaat 480
 tgaacgtgca ccttttagcta aggacgtgct ggtttcaatt ctattcttgc tcccaagcct 540
 acagcagctg agatatgaat ggaaacttct ccaggggaga aaatctgccc aattctgcct 600
 ttgtcctccc ctaaaattgt atgagttaaa tgatgggcag aaaattgggc tgttttcagc 660
 ccagacaaac actgcctcct ttcagtagtc gctacctcaa gcatccaaag ttttcatatc 720
 tgccagaact caaagcaaaa aatgcaagat tgaatctcag cagctcaggc cccagcagg 780
 acttcaaact tccaccacca aaaaaaaaaa aaaaaaaaaa gctgaattga aaggatatg 840
 ccttcattca ctgaatatc actcgtcctg ccaagtgcc gatgccarag tttctaaaat 900
 tcccccaaag gggggnccgg gtaccaaat ccccttatt agtgaagtc tatttacnaa 960
 ttccttggg nccgtccgtt tttacaacc 990

<210> 95
 <211> 1710
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1702)..(1702)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1704)..(1704)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1709)..(1710)
 <223> n equals a,t,g, or c

<400> 95
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<210> 96

<211> 781

<212> DNA

<213> Homo sapiens

<400> 96

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<210> 97

<211> 1113

<212> DNA

<213> Homo sapiens

<400> 97

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<210> 98

<211> 1723
 <212> DNA
 <213> Homo sapiens

<400> 98
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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaagggcggc cgc 1723

<210> 99
 <211> 2087
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (56)..(56)
 <223> n equals a,t,g, or c

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<210> 100
<211> 751
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (663)..(663)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (702)..(702)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (705)..(705)
<223> n equals a,t,g, or c

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<210> 101
<211> 1223
<212> DNA
<213> Homo sapiens

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<400> 101
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gccctgcccc ccagagggtg agtctacaga ggcaggcagg cctccttgaa ttgcgggtggg 540

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<210> 102

<211> 1010

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (607)..(607)

<223> n equals a,t,g, or c

<400> 102

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<210> 103

<211> 1986

<212> DNA

<213> Homo sapiens

<400> 103

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actcttaaat	ctataatatt	cgatatattc	tacaaactgc	tttattgtag	aagccatatt	1860
tatgtttatt	ttataatggt	ttctagtgtc	aaactgtact	gtggagaaaa	gaaatgttag	1920
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aaaaaa						1986

<210> 104

<211> 1321

<212> DNA

<213> Homo sapiens

<400> 104

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ttaggagcca	tttgattttc	ctttttgtttc	ccatattgtt	ttgttcctat	ccatttttct	240
actatatcgt	tgatatgttg	tttattttgtt	agggatatga	accctttgac	agtaatgagt	300
tgcaaatatt	ttctttccaa	tttgatcatct	gtctttttgct	tatgatgggt	ttgtcatgag	360
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a						1321

<210> 105

<211> 944

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (889)..(889)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (896)..(896)

<223> n equals a,t,g, or c

<400> 105

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agtgtgcatt	gtgctcagtc	atttattttca	gtgacccaaa	cagagcccag	tccagctgtt	180

tgtatthttcc	ctgcagtgagg	aagtggacta	gggcatgtg	actaagaaag	ccagcctggg	240
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agatagtcta	aataccacag	caggatctga	ttagcttttt	cagatcactg	cctttatttg	360
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agctattaag	ttttattagg	tttcagttgt	aactactttg	tgtggatata	tgttacgttt	720
ttcatattta	tcctactcaa	tcaatctcag	ttttaccaga	agaattacat	ttattagcca	780
taacagtggc	ccttctctta	ttcttttcag	ggctgatata	ttttttattc	atgagatttc	840
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<210> 106

<211> 1172

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (904)..(904)

<223> n equals a,t,g, or c

<400> 106

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aagccaccat	ccgcatggac	accagtgcac	gtggcccccac	ccgcctgggc	ctcagtgact	540
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rtatgggtgt	gagctctata	gaccatccct	ctctgcaatc	aataaacact	tgctgtgaa	1140
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<210> 107

<211> 427

<212> DNA

<213> Homo sapiens

<400> 107

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gacgctatga	gagggcgctc	cagggccag	cctcccacag	ccgtttcagc	agggacaggg	240
gctgaacagg	ccctattcca	gcccccttgc	ttcactctac	cggacagacg	gcagcagtc	300
cagctctggg	ttcttctctg	gtttattctg	ttagaatgaa	atgggtccca	taaataaggg	360
gcatgagccc	ttcctcaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	420
aaaaaaa						427

<210> 108

<211> 1708

<212> DNA

<213> Homo sapiens

<220>
 <221> misc_feature
 <222> (85)..(85)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (254)..(254)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (256)..(256)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (423)..(424)
 <223> n equals a,t,g, or c

<400> 108
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 gctgggtcca ggccacccta ctggcccagag gcctctgtag ggcttgggga ggcacctgcg 180
 gggccgcctt cacaggaacc tccatctctc aggtccctcg ccggctccct cggggcctcc 240
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 aaaaaaaaaa aaaaaaaagg gcggccgc 1708

<210> 109
 <211> 1487
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (78)..(78)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (948)..(948)
 <223> n equals a,t,g, or c

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<400> 109
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gcatcagcga ccagctgggg ggccaggacg tgcccgtgtt ccggaacctg tccctgctgg      180
tgggtgggtgt cggcgccgtg ttctcactgc tattccacct gggcaccctg gagaggcgcc      240
ggccgcatgc ggasgagcca ggcgagcaca cccccctgtt ggccccctgcc acggccccagc      300
ccctgctgct ctggaagcac tggctccggg agcsggcttt ctaccagggtg ggcatactgt      360
acatgaccac caggctcatc gtgaacctgt ccagaccta catggccatg tacctcacct      420
actcgctcca cctgcccagg aagttcatcg cgaccattcc cctggtgatg tacctcagcg      480
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tgggtgtggc cgtgtacgca gcggctgtgc tgctgggtgc tggctgtgcc accatcctcg      660
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gatgggatgg ctgcacggcg tgggtgaagg actgaacgcc acctcactgt aagacggtag     1380
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aaaaaaaaag aattcgatat caagcttatc gataccgtcg acctcga                                1487

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<210> 110
<211> 1525
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (78)..(78)
<223> n equals a,t,g, or c

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<400> 110
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gcatcagcga ccagctgggg ggccaggacg tgcccgtgtt ccggaacctg tccctgctgg      180
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gcctggaccc caccgtgggt ggcagcaggg ctgcccggca ggcttgggtg actctgctgg     1440
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aaaaaaaaaa aaaccaccg tccgc

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<210> 111

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<211> 552
 <212> DNA
 <213> Homo sapiens

<400> 111
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 ttctgtttat ttgggttagct gggttgttct ttcttcttat caattgttcc atcctgattc 180
 aaattatttc ccattacaaa gaagaacccc tgacagagag aatcaaatat gactagtgtg 240
 tgttccacac cctctgctac tgtgttacat tctgattgtc ttgtatggac cagaagagag 300
 ctttgggaca ttttttctga acattctaag cattctagt aaagttccca tgttccaaca 360
 gaacttaaaa gcaatgtttg ctttatatat aaaagggaca caataattga ggtccacctt 420
 ctaggaaatc ctaggactcg tttatttggg acatgggtggg aataaagggt acatattgga 480
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 540
 aaaaaaaaaa aa 552

<210> 112
 <211> 925
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (444)..(444)
 <223> n equals a,t,g, or c

<400> 112
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 tagtactcat gcatcagttt atgag 925

<210> 113
 <211> 1774
 <212> DNA
 <213> Homo sapiens

<400> 113
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 ggctgttccc cggcctggct gccctgcagt acctctacct gcaggacaac gcgctgcagg 540
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gccccccggg	aaacggtttt	tggcccaagg	gaacattaat	gacttaccct	tttgggactc	1200
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caggccaggc	caggctcctcc	ctgatggacg	cctgccgccc	gccacccccca	tctccacccc	1620
atcatgttta	cagggttcgg	cggcagcgtt	tgttccagaa	cgcgcctcc	caccagatc	1680
gcggtatata	gagatatgca	ttttatttta	cttgtgtaaa	aatatcggac	gacgtggaat	1740
aaagagctct	tttcttaaaa	aaaaaaaaaa	aaaa			1774

<210> 114

<211> 1777

<212> DNA

<213> Homo sapiens

<400> 114

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caggtgcctg	cgatgtctac	aatgagccca	aggtgacgac	aagctgcccc	cagcagggcc	180
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gcactctgca	tgtgccagct	gccagcttcc	gtgcctgccg	caacctcacc	atcctgtggc	300
tgcactcgaa	tgtgctggcc	cgaattgatg	cggctgcctt	caactggcctg	gccctcctgg	360
agcagctgga	cctcagcgat	aatgcacagc	tccggtctgt	ggaccctgcc	acattccacg	420
gcctggggccg	cctacacacg	gtgcacctgg	accgctgcgg	cctgcaggag	ctgggcccgg	480
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accgcatctc	cagcgtgccc	gagcgcgcct	tccgtgggct	gcacagcctc	gaccgtctcc	660
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cccattcatgt	ttacagggtt	cggcggcagc	gtttgttcca	gaacgcggcc	tcccacccag	1680
atcgcgggtat	atagagatat	gcattttatt	ttacttgtgt	aaaaatatcg	gacgacgtgg	1740
aataaagagc	tcttttctta	aaaaaaaaaa	aaaaaaa			1777

<210> 115

<211> 1340

<212> DNA

<213> Homo sapiens

<400> 115

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ccccctgtaa	agatgcaggc	tctttacaat	gaagacacat	cttctgatgt	tccttctctc	180
ctgtatggcc	agatgcacag	gaatagtgcc	caaaagacct	cagcctgctt	tccctttaag	240
gggaaggaga	agaaaaaact	cctttttatt	tttactttct	ttcagcattg	aatttttgtt	300
gtgtgtatgg	tgacttctgt	ttttgggaaa	cgggaagaag	ccagcagcat	gctgaattgt	360
cctgacaggc	tccgctgggc	tcttgccgag	gtagcagtg	ctttttttgt	atttaaacca	420
tctccccggc	agtgtaaaaa	gtttgcaggt	gcggacattc	tgtctgactg	gtctcggcag	480

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tgctctataa ccctgtttgtg tttctttgata aaacacagcc ccacccttta ataaagcaaa 540
gatttgctatg aaaccagaga gtctattcat tactgtggag taactagagc agtctgtagt 600
gactagacat acggcaatta ggaagtcagtg gagggtggat ttttgtctta attttggctg 660
ctcaaagtgc cccctgtagg atattctttt ttcgggaatt gtttccaaac ttgcctgtct 720
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aaaaaaaaa aaaaaaaaaa 1340

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<210> 116
<211> 813
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (338)..(338)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (384)..(384)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (389)..(389)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (799)..(799)
<223> n equals a,t,g, or c

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<400> 116
ctgcaggaat tcggcacgag aaagaaaggc gagagaaaaa tcaaggcacc aaatttagat 60
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gttccttctc tcctgtatgg ccagatgcac aggaatagtg cccaaaagac ctccagcctgc 240
tttcccttta agggggaaagg agaagaaaaa actccttttt atttttactt tctttcagca 300
ttgaattttt gttgtgtgta tgggtgacttc tgtttttngg gaaacggaag aagccagcag 360
catgctgaat tgtcctgaca ggcntccgnt ggctcttgcc gaggttagca gtgctttttt 420
tgwatttaaa ccatctcccc ggcagtgtaa aaagtttgca ggtgcggaca ttctgtctga 480
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ttaataaagc aaagattgct atgaaaccag agagtctatt cattactgtg gagtaactag 600
agcagtctgt agtgactaga catacggcaa ttaggaagtc atggagttgg gatttttgtc 660
ttaatttttg ctgctcaaag tgccccctgt aggatattct tttttcggga attgtttcca 720
aacttgctg tctttatcta tggtgaaact caagccgctt tttaaggcaa gcctgcaaac 780
ccaagtatca acatggggnc ctgaagggac agg 813

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<210> 117
<211> 1681
<212> DNA
<213> Homo sapiens

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<400> 117
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tttttagagta cgttctgcat tttatttytg caggcaacac tttgctcacc agcaagaaca 120
cagcccragg aaggggacca ataacctttc aaaacscaa ctgctkcctg cgggtgagggc 180

```



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ccaggggtcct ccacgggagag gacaggcatc ttcctttccc accaggaagg agtcagcccg 240
gagcctctgc tatgtgcaag gcggtgtgca agcaccggct gcggctcttt gctgtctctt 300
ctttctcttt ggggctgggc tgggtgtgcg ttctgggtgc gatgctttgg cctgtgaggc 360
tgagcttggc ayctcgacc gttcaattac agcaacgaag aagccactgc tragygtggg 420
ctcaggggar gcccggaggc agtgctcggc acccggaac gtgctcaggc ctcgggtggg 480
ccaggcaggc agggcgggag cttagcctgaa ggcgcccggg ttctgctgca gcgcatctcg 540
caccacgtct tcattctcct cctggcagag ggagcacgtg gagtagacga gccgctgcag 600
ggaagggaaa gtgagcgcgt ggcacagggc tcgctgctgg aaccctgccca gggcatgcag 660
acgcaccggg ctaggtgtsc ctgccccggg mtcctccagc tgtctgctcg gcatacccga 720
gccactgcag gaaggatcca gcaggayrta gtggacctca ygrtagcgyg gatcyraggg 780
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gttcttcaga agagcagcca agtgactggg cttattgcct ggggcggcac aggcctcgat 960
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caccagcagc tccggcatca aggggtccag gagaaaatgc tccccctga gggctcgtaa 1140
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cagcacggcg gagtagcgct gcgtttcgca caccagcgcg tacagctgct tcacgttctg 1560
gaagttgctg gagtacacca accccttgat agagcctggc ggctctccac gccggccaac 1620
acgcctgcag ctgcagcata cagccccatg ttcgctcgcg ctttacggct ttgtggcaaa 1680
a

```

```

<210> 118
<211> 2052
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2045)..(2045)
<223> n equals a,t,g, or c

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```

<400> 118
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ataagcactt ggaatcacgg gttgaagaga ttatggagaa gtctggcgag gaaggaatgc 120
ctgatcttgc ccatgtcatg cgcactttgt ctgcagaaaa tatcccaaat ttgcctcctg 180
ggggagggtct tgctggcaas cgtaatgtta ttgaagctgt ttatagtaga ctgaatccac 240
atagagaaaag tgatgggggt gctggagatc tagaagacct atggtagcct taaaaacctt 300
ctaaaatgct ttttattctg aaaattgggg gaaaaaactt ttaatcacia ttttcttcaa 360
tacaagggga aaatattctt gcggattccc aacgttttgt gatatgagca gaaaaatcatt 420
agcattttccc atcattttgt catattttgt ttttctgaca gttgccactt gtagcattgc 480
ctgtactaca gtattttttg ccaacctcag gcatactcgt tacatctgta ttgaactttc 540
ggccctagaa accagtggag ttattttcacc acaaatcaac aatgtgcctg aggtgcatgg 600
gaaatatagt tagctatact ctgaaaaatac attatgtttt ttttctttaa acaaaaacaca 660
caacatgtaa gcatgtaaga gtaagaatt gtatgatatg ttcttttttt cagttcacca 720
agttggaagc cttttgcagc tctgtggctt ggaatttcat ttgagcaatt tctataggat 780
atgtatttat tattgattgt tatttaawtt ttttcccaat ttacctgta ttaccaaact 840
gggttctcca ataagtcca aattgtaatg ttgccttgct tcaagataaa gtgtatttgg 900
gaataatatt ataaacctt acaattttta tgcattgata tactgcatcc ttcaactctc 960
actagaaaat cttttgaaac caaatggatt aatttatggc tatttataat ttgctttgac 1020
atctcactgt tggaaatttt ttaaagatga gatttgcctt tataatgtaa attgtgattt 1080
ttgttttaca tgtgggtttc tatagtttta attttttcag cttttaagat acgagttttg 1140
tgtaatttgg caattttaat cattttatgt atttttaaag ctcagaatat cacattgaaa 1200
ttactataaa tacattttaa attatctatt ttagatctaa ggaaatacta cagagatatt 1260
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gagttttgca tgtattaaat tcaattaatg ctgaacatga agagtaaagt atttatctga 1440
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gtggatgctt tgtaaacatt ttcctgtatg tttaaattgt gtttcagcag gatgtaattg 1560
cccttggtg tagttaaaat gagtcacat ctggtccttt gtgaaatgga attcatggta 1620
ttttctgtaa cgttttcctg aagctgtttc tggagagcca cacattttaa tacagacagc 1680

```

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tttcctgatac atttgatttta ttgtgcacact gattttttggt ctaaaaaggaa ttattgccac 1740
aatatattttt atttattctt tagatttttag ccttgtaagt taaagtgctt tacatgatga 1800
tgtgaaaagc tgtttgtccc tttactgggt ttgggggggt gttaaaagat aggggaatgaa 1860
gaatgcaaaa tgggtttatcg ttcaaactgt ccactctgat ccaaccctgt actgatagta 1920
cttcccagta tgatattgtg atgtttcata caatgcagtg aacataacca acttgttacc 1980
taaataaaga attgataaaa acagtgtgac atattaaaaa aaaggggggc cccgtaccca 2040
attncacctta ta 2052

```

```

<210> 119
<211> 539
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (528)..(529)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (531)..(532)
<223> n equals a,t,g, or c

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```

<220>
<221> misc_feature
<222> (537)..(537)
<223> n equals a,t,g, or c

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```

<400> 119
gagatacatt ccatgaatac ctagttttatt gagagttttt agcatgaagg actgtcgaat 60
tttgtcaaag gctttttctg catctattga gataatcatg tggtttttgt ctttggttct 120
gtttatgtga tggactatgt ttattgattt gcatatgttg aaccagcctt gcatctcagg 180
gatgaagcca actcgatcgt tgtggataag cttttttagt tgctgctgga tttgggttgc 240
caatatttta ttgaggattt ttgcatcagt gttcttcagg gatattgggtc taaaattctc 300
ttttttttgt tgtgtctctg ccaggctttg gtatcaggat gatgctggcc tcataaatga 360
gttagggagg attccctctt tctattgatc agaatagttt cagaagggaat ggtaccagct 420
cttctttgta cctctggtag aatttgggtg kgaatctatc ttgkcctgga atatttttgg 480
ggttggaact caaaaaaaaaa aaaaaaaaaa tcaaaaaaaaaa aaaaaaanna nnaaaaanaa 539

```

```

<210> 120
<211> 882
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (117)..(117)
<223> n equals a,t,g, or c

```

```

<400> 120
gaattcggca cgagcagacc tgggctcgag accataactg tttggcttta acagtacgtg 60
ggcggccgga atccgggagt ccggtgaccc gggctgtggt ctagcataaa ggcggancca 120
gaagaagggg cggggtatgg gagaagcctc ccacctgcc cccgcaaggc ggcacatctgct 180
ggctcctgctg ctgctcctct ctaccctggt gatccccctc gctgcagctc ctatccatga 240
tgctgacgcc caagagagct ccttgggtct cacaggcctc cagagcctac tccaaggctt 300
cagccgactt ttctgaaaag taacctgctt cggggcatag acagcttatt ctctgcccc 360
atggacttcc ggggcctccc tgggaactac cacaagaggg agaaccagga gcaccagctg 420
gggaacaaca ccctctccag ccacytccag atcgacaaga tgaccgacaa caagacagga 480
gaggtgctga tctccgagaa tgtggtggca tccattcaac cagcggaggg gagcttcgag 540
ggtgatttga aggtaccag gatggaggag aaggaggccc tggtagccat ccagaaggcc 600
acggacagct tccacacaga actccatccc cgggtggcct tctggatcat taagctgcc 660
cggcggaggt cccaccagga tgccctggag ggcggccact ggctcagcga gaagcgacac 720
cgccctgcagg ccattccggga tggactccgc aaggggaccc acaaggacgt cctagaagag 780
gggaccgaga gctcctccca ctccaggctg tccccccgaa agaccactt actgtacatc 840
ctcaggccct ctcggcagct gtaggggtgg ggaccgggga gc 882

```

<210> 121
 <211> 1193
 <212> DNA
 <213> Homo sapiens

<400> 121
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 gtccggtaat gtcaaaggaa aagtaattct gtcaatgctg gttgtctcaa ctgtgatcat 120
 tgtgttttgg gaatttatca acagcacaga aggctctttc ttgtggatat atcactcaaa 180
 aaaccacagaa gttgatgaca gcagtgcctca gaagggctgg tggtttctga gctgggttaa 240
 caatgggac cacaattatc aacaagggga agaagacata gacaaagaaa aaggaagaga 300
 ggagaccaa ggaaggaaaa tgacacaaca gagcttcggc tatgggactg gtttaatacca 360
 aacttgaagg aatccgaata actaaactgg actctgggtt tctgactcag tccttctaga 420
 agacctggac tgagagatca tgcggttaag gagtgtgtaa caggcggacc acctgttggg 480
 actgsgagat tctcaagggg aaggactggg tctcatttct cccatctcag cgcttagcag 540
 gatgacctgg tatagagcag ggaactggga aatgtgggtc aggggatcag acactccagt 600
 tgggtctttt atataaatta aatggcaaaa ggctccatac ctttctcctt ctttctctacc 660
 ctccacttta tctgcaaaat gggaatgatg ataacacca cttcatagaa tgggtcatgaa 720
 gatcaaatga gagaataaaa gtcaagcact tagcctctgg tgcacaataa gtattaaata 780
 agtataccta ttctctcttt tctcttttta aaaataatat taccaaatgt ccagcttata 840
 cacatttaca agacttagct agtgggctat gttagagcta ctaaaagatc ttgacaagc 900
 taaaactaag atgcaatgaa tgagggtgtaa cgaacaagag agttttaagt tcagaaatgg 960
 ttacagaagt ataagacagc tgtgtgggtg ttttttgggt tttggtttct gggttacaat 1020
 ctctgcattc aacaaagatg ggagttttat agaactaaaa gcmccatgta agctactaaa 1080
 aacaacaaca aaaaaggctc atcatttctc agtctgaatt gacaaaaatg ccaatgcaaa 1140
 taaaaatgat tactttttat tttaaaaaaa aaaaaaaaaa aaaaaaactc gta 1193

<210> 122
 <211> 1338
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (519)..(519)
 <223> n equals a,t,g, or c

<400> 122
 ggcacgaggg tgaggcccag gtagcgtttg caatccagcc ccaccgtcac ctcttttctt 60
 ggacttctag ttttcttcac ccctattgcc ttcacccctt tacctccgat cctgtggagg 120
 gaatgagctg gagccttgtg gcacaatttg tgaggggctc tttatctcca tggcattcaa 180
 actcctcatt ctgctcatag ggacctgggc actttttttc cgcaagcgga gagctgacat 240
 gccacgggtg tttgtgtttc gtgccctttt gttggctctc atctttctct tttgtgggtt 300
 ccctattggc ttttttacgg ggtccgcatt ttggactctc gggaaccgga attaccaagg 360
 gattgtgcaa tatgcagtct ccccttgtgg aatgccctcc tcttccatc cattactggc 420
 catccgtccc tgctggagct caggagctt gcagcccaat gttccacgct gcaggttggg 480
 cccgctccca accgaatggg gaaatccccg cttccagctt gggacacctg agtatccagc 540
 gagcagcatt ggtggtccta gaaaattact acaaagattt caccatctat aacccaaacc 600
 tcctaacagc ctccaaattc cgagcagcca agcatatggc cgggctgaaa gtctacaatg 660
 tagatggccc cagtaacaat gccactggcc agtcccgggc catgattgct gcagctgctc 720
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 taaagaagcg gaaagcaagg ctggtgggtg cagtgggaag ggcccttcac cacattcagc 840
 gtctccaggc tgaggagcag cagaaagccc caggggaggt gatggacct agggaggccg 900
 cccaggccat tttccctcc atggccaggg ctctccagaa gtacctgcgc atcacccggc 960
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 ggcattgaccc ccaaggcctt cctagaacgg tacctcagtg cgggccccac cctgcaatat 1080
 gacaaggacc gctggctctc tacacagtgg aggcttgtca gtgatgaggc tttgactaat 1140
 ggattacggg atggaattgt gttcgtcctt aagtgccttg acttcagcct cgtagtcaat 1200
 gtgaagaaaa ttccattcat catactctct gaagagttca tagaccccaa atctcacaaa 1260
 tttgtccttc gcttacagtc tgagacatcc gtttaaaagt tctatatattg tggctttatt 1320
 aaaaaaaaaa aaaaaaaaaa 1338

<210> 123
 <211> 1183
 <212> DNA
 <213> Homo sapiens

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<400> 123
tgcaggaatt cggcacgagc tggctgcagg gtctctgggg agagaagggg cctcggcttc 60
acaggatggg gctgccagtg tcctggggcc ctccctgccct ctgggttcta ggggtgctgcg 120
ccctgctcct ctgcgtgtgg gcgctgtgca cagcctgccg cagcccagag acgctgtagc 180
ccccaggaag agggcgcgga ggcagcgggc gaggctgcag ggcagtgcga cggcggcgga 240
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acgagctgca ccggggcccg cgcagcagca gggccctgcg gcctgccagy atggatctcc 360
tgcgcccaca ctggctggag gtgtccaggg acatcaccgg accgcaggca gccccctctg 420
ccttcccaca ccaggagctg ccccgggctc tgccggcagc tgcagccacc gcagggtgcg 480
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ggccagccct gtggtggccg agtatgcccg cgtccagaag cgcaaaggga cccatcgag 600
tccccaaag ccacagcagg ggaagactga ggtgaccccg gccgctcagg tggacgtcct 660
gtactccagg gtctgcaagc ctaaaaggag ggaccagga cccaccacag acccgctgga 720
ccccaagggc cagggagcga ttctggccct ggcgggtgac ctggcctacc agaccctccc 780
gctcagggcc ctggatgtgg acagcggccc cctggaaaac gtgtatgaga gcatccggga 840
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ctctgacagc cgcggcctcc ccgggctcca gagaaggccc gcgtctaat aaagcgccag 1140
cgcaggatga aagcgaaaaa aaaaaaaaaa aaaggcgccg cgc 1183

```

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<210> 124
<211> 615
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (18)..(18)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (20)..(20)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (584)..(584)
<223> n equals a,t,g, or c

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```

<400> 124
cctgtatata aaattggncn ctatgggtccc gtacaatgaa gaaatgcaaa gatagttaag 60
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tttttgagct cttgccatgt gtgaagcact ttatacacct gtaaggtagg taacgttgtt 180
cttattaaac atgaagaaaa tgagactttg tgagaagcaa tacagtatag aagttaagaa 240
tatggactct aaagctagat ttcagagggt tgaagtagct ctgctactta ctggctgtgt 300
gactttgagc agattactta acctgtctgt gcctatgttt acttttattg ttgtaaaaag 360
atatgcaaca taaaatattc catttcaacc gtttttacgt gtatacttca ctgacattag 420
ttgcattcac tatgttgtgc aaacgtaggg tcgctatgaa gattaaatga gttaattcat 480
ataaagccct cagaagagtg tctggcacat ggtgagtatt ggctgtactg tggtcgatgt 540
cattgttaga gaggcttagt gatttgctta agacagaaaag gtanactggg gtgcgggtgg 600
ctcacgccct ggta 615

```

```

<210> 125
<211> 587
<212> DNA
<213> Homo sapiens

```

```

<400> 125
cccacgcgtc cgccctggaac ctgattctcc tgaccgtctt taccctgtcc atggcctacc 60
tactggggat gctgtccagc tactacaaca ccacctccgt gctgctgtgc ctgggcatca 120
cggcccttgt ctgcctctca gtcaccgtct tcagcttcca gaccaagttc gacttcacct 180
cctgccaggg cgtgctcttc gtgcttctca tgactctttt cttcagcgga ctcatcctgg 240

```

```

ccatcctcct acccttccaa tatgtgccct ggctccatgc agtttatgca gcactgggag 300
cgggtgtatt tacattgttc ctggcacttg acaccagtt gctgatgggt aaccgacgcc 360
actcgtgag ccttgaggag tataattttg gagccctcaa catttaccta gacatcatct 420
atatcttcac cttcttcctg cagctttttg gcactaaccg agaatgagga gccctccctg 480
ccccaccgtc ctccagagaa tgcgccccctc ctggttccct gtccctcccc tgcgctcctg 540
cgagaccaga tataaaacta gctgccaacc caaaaaaaaa aaaaaaa 587

```

```

<210> 126
<211> 1379
<212> DNA
<213> Homo sapiens

```

```

<400> 126
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agaggctgcc cgagatggcc cagccagttg acccggtcca caatgtcagc cgcctgcacc 180
ggctgcccag ggattgccag gagctgttcc aggttgggga gaggcagagt ggactatttg 240
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gctggacagt aattcagagg cgccacgatg gctcagtgga cttcaaccgg ccctgggaag 360
cctacaaggc ggggtttggg gatccccacg gcgagttctg gctgggtctg gagaaggtgc 420
atagcatcat gggggaccgc aacagccgcg tggcctgca gctgcgggac tgggatggca 480
acgccagagt gctgcagttc tccgtgcacc tgggtggcga ggacacggcc tatagcctgc 540
agctcactgc acccgtggcc ggccagctgg gcgccaccac cgtcccaccc agcggcctct 600
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gtacttccgg ctccatccca cagcagcggc agaagcttaa gaagggaatc ttctggaaga 780
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gaggcagcct cctagcgtcc tggctgggccc tgggtcccagg cccacgaaag acggtgactc 900
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ggggggctgc atgcgttggc tcctgagatc gaggtgcag gatatgctca gactctagag 1080
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ggaccagggc ttgtgtgggt cgagagcgcc ctcatggtgc tgggtgctgt gtgtgtaggt 1260
ccctggggga cacaagcagg cgcaatggt atctgggcgg agctcacaga gttcttggaa 1320
taaaagcaac ctcagaacac ttaaaaaaaaa aaaaaaaaa aaaaaaaaa aaaaaaaaa 1379

```

```

<210> 127
<211> 583
<212> DNA
<213> Homo sapiens

```

```

<400> 127
ccacgcgtcc gggacatctg ccggctggag cgggcagtggt gccgcgatga gccctctgcc 60
ctggcccggg ccttacctg gaggcaggca agggcacagg ctggagccat gctgctcttc 120
gggctgtgct gggggcccta cgtggccaca ctgctcctct cagtcctggc ctatgagcag 180
cgcccggcac tggggcctgg gacactgttg tccctcctct ccctaggaag tgccagtgc 240
gcggcagtgcc ccgtagccat ggggctgggc gatcagcgct acacagcccc ctggaggggca 300
gccgccccaa ggtgcctgca ggggctgtgg ggaagagcct cccgggacag tcccggcccc 360
agcattgcct accacccaag cagccaaagc agtgtcgacc tggacttgaa ctaaagggaag 420
ggcctctgct gactcctacc agagcatccg tccagctcag ccattccagcc tgtctctact 480
gggccccact tctctggatc agagaccctg cctctgtttg accccgcact gactgaataa 540
agctcctctg gccgtttaa aaaaaaaaa aaaaaaaaa aaa 583

```

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<210> 128
<211> 1268
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1184)..(1184)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature

```

<222> (1240)..(1240)

<223> n equals a,t,g, or c

<400> 128

aggggttgatg	ggttatggctc	aggagtccca	gctggggccca	ccacctcctc	aggaaggcgg	60
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atctcccggc	ctcgggtcct	tgcttgccc	agcatgagag	gtgcttcata	ggaacggagg	180
gaggacatgt	cgggacagct	cgatgctcgg	cctgctgctg	ctctgcaccc	ccagggcctg	240
gctcaccctc	tctggacctg	tctgcttcca	aggaaggac	cctctgaggt	cccacagagg	300
ccaccccagc	tgtgggtcgt	gagcatctct	gtcttgagg	gacagcatcg	tggccgagct	360
ggaccgagag	atgagcagag	cgtggacgtg	accaacacca	ccttcctgct	catggccgcc	420
tccatctatc	tccacgacca	gaaccggat	gccgccctgc	gtgcgctgca	ccagggggag	480
agcctggagt	ggtgagtggc	ctccctgctc	tggggccagc	cagggaggca	agtgtcccct	540
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gtgctgaaat	gaggccctgg	cctgctgtcc	aggctccagc	tcccctgccc	agtgtgggag	660
gcactcccat	ctgcgcacca	ggctgcggat	ccaaggacac	ggtgccagg	ctgcaaccct	720
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gctggggcatt	tcatggctgc	tgtggatctg	ctcccatccc	acctccatcc	acagagggct	1080
tagaattgca	gggcgagcca	ggcatgggtga	catgcaccta	tgtttccagc	tacttgggag	1140
gcggaagtca	ggagtatccc	ttgagtctgg	gaggtggagg	ctgncagtga	gccgtgatgg	1200
tgccactgca	ctccagcctg	ggtggcagag	ccagaccctn	actcacacac	aaaaaaaaaa	1260
aaaaaaaaa						1268

<210> 129

<211> 1311

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1036)..(1036)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1112)..(1112)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1168)..(1168)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1223)..(1223)

<223> n equals a,t,g, or c

<400> 129

gaaaaaagaa	agcaatatgg	aaaccgaact	aaggagattt	taaactgaga	tataagatgc	60
tttcaattat	tcccaatgac	aggctattta	tcaatttaat	atttttaagc	aacttcctcc	120
catcagtgtc	ctgggaacca	gctgggcaga	tgtggtacac	ccatgtcaga	taccccagtg	180
gcaggctcct	gtcactgtag	cacttggtcc	ctccatccct	cccagccttc	ctagctcctt	240
gctcctggaa	acctcccccc	atcaatctct	gacatttcag	aggaaatact	gtttgtcacc	300
tcttaaggaa	tctgggagga	cggcctgtga	gatatggcgt	cagttacagc	ctcttaaaga	360
gtcaatagcc	cctgcagagg	ccagaacact	ggaacaaatg	taagggaagg	atagttttta	420
aagatttttg	acttgaatta	aataggattg	gttactttct	gccccctccc	aggggtggact	480
gtgcacagaa	gagacctctt	caccgggttt	gctgctcttt	ttcgcactgt	gagttggggt	540
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gccccctgtc	tgtgcagtga	ctgtgcaacc	agcacctttt	gtgggtcgaat	cagccagcag	660
aagtgtcccct	cgtgttcctg	gatttctctt	tctgtgggtc	catttctttg	agtcctgggt	720
tctcgccttg	aatggctcaa	cagggggaaa	ggcagacagc	ttcttcgtgc	cagaaacatt	780

tttttttttt	tttgaaatar	tgagccaaga	ttgcgccact	gcattccatc	ctcagcaaca	840
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gaatgttttg	aattgactcc	tgtcctctgg	ttaaaactcc	tcttgagata	attgatagct	1020
gaaaaggtag	gatggntctc	tcaaacttga	cttccatcta	aatcaacgct	gagttgatta	1080
acttagatat	caagaaaaat	tgcctcatta	gnttaccctt	gaggagatgc	ctatgaaggt	1140
acatcctttt	tacaattaat	aagacagntt	tcacatgaag	aaacaatttg	aaatatttaa	1200
taagaaaatg	gggtgaaggc	aancattacg	gttgggaaaa	gaccatgcaa	gccttttatag	1260
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<210> 130

<211> 1249

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1217)..(1217)

<223> n equals a,t,g, or c

<400> 130

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gctgggatta	caggcgtgag	cactgcgccc	agcctgagtt	tcatttttta	agtcacatag	120
cagtagtcct	tatttccagt	ctagaccctt	tgaaatgcga	tgaaagctat	atggaccctt	180
cgctttgtta	tataacatat	gcacacatac	ccagaatttt	gcacatatgt	tcagagattc	240
ctagacctgc	agacctgcct	ctgtgtgtcc	caatttaaga	acctctgttc	tttcttcatg	300
actggatttg	cccaattttg	tgttattttg	ggacttaatt	tgtccctctt	tgggacattt	360
ccttattttat	tgccctcttc	agagagtaga	tgtagaaaat	aaagagagga	aacctagatt	420
acttaatttt	aatttaacat	tttctataga	tagcatacca	cgccaagtgt	gctctgtctt	480
gatccccctc	tttctagcat	ctgccagaca	ttgtagagtt	tcscascag	ttgtaggttt	540
gagctgcagc	cagtcatttc	ttttattctt	taaaagtaca	tagatttgct	tttttagggc	600
tttactgaaa	gtaaaatata	ctgacattta	aactgacaga	tgtaggagggt	aaaaaataga	660
gttctgaaac	atwtgaattt	atgtgacagc	tgaagtcacg	agatgaggka	tgtatgtccc	720
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ggaacataga	gccatttggc	agattgacaa	tgcagtgaca	gctgtatata	ataaatgtgt	960
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tatttctaata	ctgtgtttta	tagtgtgagc	tacatatgta	attttaaaaa	tttcaagtag	1140
ccacataata	aaggaaacag	gtgaaattta	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	1200
aaaaaaaaaa	aaaaaanaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa		1249

<210> 131

<211> 1660

<212> DNA

<213> Homo sapiens

<400> 131

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ggctcctgctg	ctggcgctcg	ggctgcgcgg	cctccaggcg	ggggcccgcga	gcggaccccg	120
gcttccagga	gcgcttcttc	cagcagcgtc	tggaccactt	caacttcgag	cgcttcggca	180
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cggggaagtcg	ctgccgttcg	gtgcgcagtc	cacgcagcgc	gggcacacgg	agctgctgac	420
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cagcctctga	gcacaggact	ggaggggtct	caaggctcct	catggagtgg	gggcttcaact	1560
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aaaaaaaaa	aaaaaaaaa	aaaaaaaaa	aaaaaaaaa			1660

<210> 132
 <211> 2075
 <212> DNA
 <213> Homo sapiens

<400> 132						
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agccgccaca	ttccagttcc	gcacgcgctg	ggattcggag	cttcagcggg	aaggagtgtc	240
ccattacagg	ctctttccca	aagccctggg	gcagctgata	tccaagtatt	ctctacggga	300
gctgcacctg	tcattcacac	aaggcttttg	gaggaccgga	tactgggggc	caccttcctt	360
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ggtctgcacc	gaaaacctca	ccccctggaa	gaagctcttg	ccctgtagtt	ccaaggcagg	480
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caccatcacc	tccaagggca	aggagaacaa	accaagttag	atccactacc	agcctgcccc	1140
ggaccggctg	caacccccacc	tcctggagat	gctgattcag	ctgccggcca	actcagtcac	1200
caagggttcc	atccagtttg	agcgggcgct	gctgaagtgg	accgagtaca	caccagatcc	1260
taaccatggc	ttctatgtca	gccccatctgt	cctcagcgcc	cttgtgcccc	gcatggtagc	1320
agccaagcca	gtggactggg	aagagagtcc	cctcttcaac	agcctgttcc	cagtctctga	1380
tggctctaac	tactttgtgc	ggctctacac	ggagccgctg	ctgggtgaacc	tgccgacacc	1440
ggacttcagc	atgccctaca	acgtgatctg	cctcacgtgc	actgtgggtg	ccgtgtgcta	1500
cggctccttc	tacaatctcc	tcaccggaac	cttctccat	cgaggagccc	cgcacagggtg	1560
gcctggccaa	gcggctggcc	aaccttatcc	ggcgcgcccg	agtgtccccc	ccactctgat	1620
tcttgccctt	tccagcagct	gcagctgccg	tttctctctg	gggaggggag	cccaagggct	1680
gtttctgcca	cttgctctcc	tcagagttag	cttttgaacc	aaagtgcctt	ggaccagggtc	1740
agggcctaca	gctgtgttgt	ccagtacagg	agccacgagc	caaatgtggc	atttgaattt	1800
gaattaactt	agaaattcat	ttcctcacct	gtagtggcca	cctctatatt	gaggtgctca	1860
ataagcaaaa	gtggctcggg	gctgctgtat	tggacagcac	agaaaaagat	ttccatcacc	1920
acagaaaggt	cggctggcag	cactggccaa	ggtgatgggg	tgtgtacac	agtgtatgtc	1980
actgtgtagt	ggatggagtt	tactgtttgt	ggaataaaaa	cggctgtttc	cgtgggttaa	2040
aaaaaaaaa	aaaaaaaaa	aaaaaaaaa	aaaaa			2075

<210> 133
 <211> 1333
 <212> DNA
 <213> Homo sapiens

<400> 133						
gaattcggca	cgagcccagg	agtgcagtgg	tatgatcata	gttcaccgta	gcctcaaact	60
cgtgggctca	agtgatcctc	cagccttaac	ctcccgaata	gcctggctta	taggtgcacg	120
ccacacacct	gactgctcag	tatgtaaatt	ttactatgc	ctaagggttg	ccacctttta	180
atatgttttag	gagccatttg	tatttctctt	tgtttcccat	attgttttgt	tcctatccat	240
ttttctacta	tatcgttgat	atgttgttta	tttgtaggg	atatgaacc	tttgacagta	300
atgagttgca	aatattttct	ttccaatttg	tcattctgtc	tttgcttatg	atggctttgt	360


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catgagtttt aaaaaatttt tatgtagtct gaataccagt ttttttagtg gtttctggat 420
tttgagtcac aattagaatg twtttctcaa tccagagcaa tagagtaatt cacctaaatt 480
ctacatctaa attttgaacc tctgaagcat attctggcat aagatataag ttatggatct 540
aacctaattt tttccgcagg tgattaaccc agttgttcca atattattta ttgaactggt 600
tgttttttcc tgacgagttt gagargctac attgatctta tcttagaatc cgtcatatgt 660
athtagctgt gtatctgctt ctgtttctct gtatctgttt ctatttcatt gctctattta 720
gtcatgcact artaccacat tgttttaatt acccaggctt tagttttaat ctagtgcatt 780
ggctcctcct cattcctccc ctgcccacmt tttttttttt taacagtttt tctaactggt 840
ccttattttt cccatatgrg ctttaaaaaa ttcttaacat atagagcata ctaaaactgt 900
ccaactcaag ttctctccca aggggtgcac ttttaaccac ttattttgtc actgttcttt 960
tgatactttm cctgataaag atacactttt tactactttt aaattattac agtgttctat 1020
ttggcagtg ccaaacaggt gatggcagat agaggcagga tgcaatgcct gtgtggaaag 1080
aatgtcatct cagtgttctt attttaagat agtctctagg aatgatttaa ggactgttct 1140
catgtaaaat ccctatttct ttttttattc cattacgaat tatttgccca aaagttggat 1200
atctgtcaaa gattcataag acaagagga gagaccctta aataagtact aaacttgtaa 1260
aatcaatatg tggataaaa tgcaagtaca agaagttact ttggaaaaaa aaaaaaaaaa 1320
aaaaaaaaact cga 1333

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<210> 134

<211> 56

<212> PRT

<213> Homo sapiens

<400> 134

```

Met Ala Lys Thr Asp Phe Ser Ile Ile Leu Leu Lys Leu His Cys Leu
  1              5              10              15

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```

Phe Phe Phe Ser Val Ile Ser Val His Cys Ala Gln Ser Phe Ile Ser
      20              25              30

```

```

Val Thr Gln Thr Glu Pro Ser Pro Ala Val Cys Ile Phe Pro Ala Val
      35              40              45

```

```

Gly Ser Gly Leu Gly Pro Cys Asp
  50              55

```

<210> 135

<211> 41

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 135

```

Met Ala Xaa Leu Asp Asn Cys Leu Met Leu Leu Ile Thr Ser Gly Thr
  1              5              10              15

```

```

Trp Leu Gly Ser Val Ala Arg Lys Thr Trp Gln Ala Ile Cys Asp Ser
      20              25              30

```

```

Gly Ser Ser Gly Cys Ala Leu Ile Arg
      35              40

```

<210> 136

<211> 414

<212> PRT

<213> Homo sapiens

<400> 136

Met 1	Asn	Pro	Thr	Leu 5	Gly	Leu	Ala	Ile	Phe 10	Leu	Ala	Val	Leu	Leu 15	Thr
Val	Lys	Gly	Leu 20	Leu	Lys	Pro	Ser	Phe 25	Ser	Pro	Arg	Asn	Tyr 30	Lys	Ala
Leu	Ser	Glu 35	Val	Gln	Gly	Trp	Lys 40	Gln	Arg	Met	Ala	Ala 45	Lys	Glu	Leu
Ala	Arg 50	Gln	Asn	Met	Asp	Leu 55	Gly	Phe	Lys	Leu	Leu 60	Lys	Lys	Leu	Ala
Phe 65	Tyr	Asn	Pro	Gly	Arg 70	Asn	Ile	Phe	Leu	Ser 75	Pro	Leu	Ser	Ile	Ser 80
Thr	Ala	Phe	Ser	Met 85	Leu	Cys	Leu	Gly	Ala 90	Gln	Asp	Ser	Thr	Leu 95	Asp
Glu	Ile	Lys	Gln 100	Gly	Phe	Asn	Phe	Arg 105	Lys	Met	Pro	Glu	Lys 110	Asp	Leu
His	Glu	Gly 115	Phe	His	Tyr	Ile	Ile 120	His	Glu	Leu	Thr	Gln 125	Lys	Thr	Gln
Asp	Leu 130	Lys	Leu	Ser	Ile	Gly 135	Asn	Thr	Leu	Phe	Ile 140	Asp	Gln	Arg	Leu
Gln 145	Pro	Gln	Arg	Lys	Phe 150	Leu	Glu	Asp	Ala	Lys 155	Asn	Phe	Tyr	Ser	Ala 160
Glu	Thr	Ile	Leu	Thr 165	Asn	Phe	Gln	Asn	Leu 170	Glu	Met	Ala	Gln	Lys 175	Gln
Ile	Asn	Asp	Phe 180	Ile	Ser	Gln	Lys	Thr 185	His	Gly	Lys	Ile	Asn 190	Asn	Leu
Ile	Glu	Asn 195	Ile	Asp	Pro	Gly	Thr 200	Val	Met	Leu	Leu	Ala 205	Asn	Tyr	Ile
Phe	Phe 210	Arg	Ala	Arg	Trp	Lys 215	His	Glu	Phe	Asp	Pro 220	Asn	Val	Thr	Lys
Glu 225	Glu	Asp	Phe	Phe	Leu 230	Glu	Lys	Asn	Ser	Ser 235	Val	Lys	Val	Pro	Met 240
Met	Phe	Arg	Ser	Gly 245	Ile	Tyr	Gln	Val	Gly 250	Tyr	Asp	Asp	Lys	Leu 255	Ser
Cys	Thr	Ile	Leu 260	Glu	Ile	Pro	Tyr	Gln 265	Lys	Asn	Ile	Thr	Ala 270	Ile	Phe
Ile	Leu	Pro 275	Asp	Glu	Gly	Lys	Leu 280	Lys	His	Leu	Glu	Lys 285	Gly	Leu	Gln
Val	Asp 290	Thr	Phe	Ser	Arg	Trp 295	Lys	Thr	Leu	Leu	Ser 300	Arg	Arg	Val	Val
Asp 305	Val	Ser	Val	Pro	Arg 310	Leu	His	Met	Thr	Gly 315	Thr	Phe	Asp	Leu	Lys 320
Lys	Thr	Leu	Ser	Tyr 325	Ile	Gly	Val	Ser	Lys 330	Ile	Phe	Glu	Glu	His 335	Gly
Asp	Leu	Thr	Lys 340	Ile	Ala	Pro	His	Arg 345	Ser	Leu	Lys	Val	Gly 350	Glu	Ala

Val His Lys Ala Glu Leu Lys Met Asp Glu Arg Gly Thr Glu Gly Ala
 355 360 365

Ala Gly Thr Gly Ala Gln Thr Leu Pro Met Glu Thr Pro Leu Val Val
 370 375 380

Lys Ile Asp Lys Pro Tyr Leu Leu Leu Ile Tyr Ser Glu Lys Ile Pro
 385 390 395 400

Ser Val Leu Phe Leu Gly Lys Ile Val Asn Pro Ile Gly Lys
 405 410

<210> 137
 <211> 44
 <212> PRT
 <213> Homo sapiens

<400> 137
 Met Gly Gln Gln Ser Cys Trp Met Gly Leu Gly Cys Trp Leu Ser Leu
 1 5 10 15

Ser Gly Leu Ser Gly Val Val Arg Ala Ser Pro Arg Ser Pro Arg Pro
 20 25 30

Arg Arg Gly Ala Ala Cys Gly Glu Thr Leu Met Pro
 35 40

<210> 138
 <211> 197
 <212> PRT
 <213> Homo sapiens

<400> 138
 Met Ala Gly Pro Trp Thr Phe Thr Leu Leu Cys Gly Leu Leu Ala Ala
 1 5 10 15

Thr Leu Ile Gln Ala Thr Leu Ser Pro Thr Ala Val Leu Ile Leu Gly
 20 25 30

Pro Lys Val Ile Lys Glu Lys Leu Thr Gln Glu Leu Lys Asp His Asn
 35 40 45

Ala Thr Ser Ile Leu Gln Gln Leu Pro Leu Leu Ser Ala Met Arg Glu
 50 55 60

Lys Pro Ala Gly Gly Ile Pro Val Leu Gly Ser Leu Val Asn Thr Val
 65 70 75 80

Leu Lys His Ile Ile Trp Leu Lys Val Ile Thr Ala Asn Ile Leu Gln
 85 90 95

Leu Gln Val Lys Pro Ser Ala Asn Asp Gln Glu Leu Leu Val Lys Ile
 100 105 110

Pro Leu Asp Met Val Ala Gly Phe Asn Thr Pro Leu Val Lys Thr Ile
 115 120 125

Val Glu Phe His Met Thr Thr Glu Ala Gln Ala Thr Ile Arg Met Asp
 130 135 140

Thr Ser Ala Ser Gly Pro Thr Arg Leu Val Leu Ser Asp Cys Ala Thr
 145 150 155 160

Ser His Gly Ser Leu Arg Ile Gln Leu Leu His Lys Leu Ser Phe Leu
 165 170 175

Val Asn Ala Leu Ala Lys Gln Val Met Asn Leu Leu Val Pro Ser Met
 180 185 190

Pro Arg Trp Pro Asn
 195

<210> 139

<211> 45

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 139

Met His Arg Gln Leu Leu Gly Phe Cys Phe Xaa Phe Cys Phe Phe Phe
 1 5 10 15

Lys Arg His Cys Asp Cys Ile Leu Leu Tyr Leu Ile Gly Phe Val Phe
 20 25 30

Leu Leu Thr Met Val Lys Ile His Leu Ser Glu His Ser
 35 40 45

<210> 140

<211> 40

<212> PRT

<213> Homo sapiens

<400> 140

Met Leu Lys Arg Val Ile Leu Leu Val Glu Met Phe Ile His Phe Leu
 1 5 10 15

Ile Tyr Ala Lys Ser Phe Tyr His Lys Ser Trp Glu Gln Leu Ser Phe
 20 25 30

Thr His Tyr Leu Leu Gln Ile Ser
 35 40

<210> 141

<211> 84

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 141

Met Pro Ile Leu Val Phe Ser Ile Cys Leu Gln Cys Thr Leu Phe Arg
 1 5 10 15

Ser Glu Ala Ile Ile Phe Gln Glu Glu Arg Asn His Gln Val Thr Leu

	20		25		30	
Leu	Lys	Ala	Val	Lys	Thr	Lys
	35					Phe
						Gln
						Ser
						Gly
						Thr
						Gly
						Leu
						Arg
						Xaa

Pro	Val	Leu	Glu	Tyr	Ala	Lys	Ser	Ile	Gln	Ile	Ile	Ser	Lys	Tyr	Thr
	50					55					60				

Cys	Gly	Thr	Val	Leu	Pro	Val	Phe	Lys	Met	Arg	Arg	Tyr	Tyr	Val	Gly
65					70					75					80

Gln Lys Cys Gln

<210> 142
 <211> 200
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (144)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (149)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (160)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (173)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (177)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (189)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 142
 Met Phe Phe Leu Leu Cys Leu Val Ala Leu Glu Ile Lys Gly Phe Thr
 1 5 10 15

Phe Ser Ala Arg Gly Ala Arg Asp Arg Phe Leu Asn Lys Ser Gly Pro
 20 25 30

Gln Pro Gly Lys Lys Met Lys Thr Thr His Cys Lys Gln Pro Leu Phe
 35 40 45

Ser Lys Pro Gly Gln Val Arg Gly Ala Leu Arg Lys Ala Arg Gly Arg
 50 55 60

Gln Glu Glu Arg Glu Ala Val Gly Met Trp Gly Gly Arg Gly His Ser
 65 70 75 80

```

<210> 143
<211> 325
<212> PRT
<213> Homo sapiens

<400> 143
Met Gly Ser Gln Val Ser Ser Met Leu Lys Leu Ala Leu Gln Asn Cys
  1          5          10          15
Cys Pro Gln Leu Trp Gln Arg His Ser Ala Arg Asp Arg Gln Cys Ala
          20          25          30
Arg Val Leu Ala Asp Glu Arg Ser Pro Gln Pro Gly Ala Ser Pro Gln
      35          40          45
Glu Asp Ile Ala Asn Phe Gln Val Leu Val Lys Ile Leu Pro Val Met
  50          55          60
Val Thr Leu Val Pro Tyr Trp Met Val Tyr Phe Gln Met Gln Ser Thr
  65          70          75          80
Tyr Val Leu Gln Gly Leu His Leu His Ile Pro Asn Ile Phe Pro Ala
          85          90          95
Asn Pro Ala Asn Ile Ser Val Ala Leu Arg Ala Gln Gly Ser Ser Tyr
      100          105          110
Thr Ile Pro Glu Ala Trp Leu Leu Leu Ala Asn Val Val Val Val Leu
      115          120          125
Ile Leu Val Pro Leu Lys Asp Arg Leu Ile Asp Pro Leu Leu Leu Arg
      130          135          140
Cys Lys Leu Leu Pro Ser Ala Leu Gln Lys Met Ala Leu Gly Met Phe
145          150          155          160
Phe Gly Phe Thr Ser Val Ile Val Ala Gly Val Leu Glu Met Glu Arg
          165          170          175

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Leu His Tyr Ile His His Asn Glu Thr Val Ser Gln Gln Ile Gly Glu
      180                      185                      190
Val Leu Tyr Asn Ala Ala Pro Leu Ser Ile Trp Trp Gln Ile Pro Gln
      195                      200                      205
Tyr Leu Leu Ile Gly Ile Ser Glu Ile Phe Ala Ser Ile Pro Gly Leu
      210                      215                      220
Glu Phe Ala Tyr Ser Glu Ala Pro Arg Ser Met Gln Gly Ala Ile Met
      225                      230                      235                      240
Gly Ile Phe Phe Cys Leu Ser Gly Val Gly Ser Leu Leu Gly Ser Ser
      245                      250                      255
Leu Val Ala Leu Leu Ser Leu Pro Gly Gly Trp Leu His Cys Pro Lys
      260                      265                      270
Asp Phe Gly Asn Ile Asn Asn Cys Arg Met Asp Leu Tyr Phe Phe Leu
      275                      280                      285
Leu Ala Gly Ile Gln Ala Val Thr Ala Leu Leu Phe Val Trp Ile Ala
      290                      295                      300
Gly Arg Tyr Glu Arg Ala Ser Gln Gly Pro Ala Ser His Ser Arg Phe
      305                      310                      315                      320
Ser Arg Asp Arg Gly
      325

```

<210> 144

<211> 118

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (107)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 144

```

Met Val Phe Val His Leu Tyr Leu Gly Asn Val Leu Ala Leu Leu Leu
  1                      5                      10                      15

```

```

Phe Val His Tyr Ser Asn Gly Asp Glu Ser Ser Asp Pro Gly Pro Gln
      20                      25                      30

```

```

His Arg Ala Gln Gly Pro Gly Pro Glu Pro Thr Leu Gly Pro Leu Thr
      35                      40                      45

```

```

Arg Leu Glu Gly Ile Lys Val Gly His Glu Arg Lys Val Gln Leu Val
      50                      55                      60

```

```

Thr Asp Arg Asp His Phe Ile Arg Thr Leu Ser Leu Lys Pro Leu Leu
      65                      70                      75                      80

```

```

Phe Glu Ile Pro Gly Phe Leu Thr Asp Glu Glu Cys Arg Leu Ile Ile
      85                      90                      95

```

```

His Leu Ala Gln Met Lys Gly Leu Gln Arg Xaa Arg Ser Cys Leu Leu
      100                      105                      110

```

```

Lys Ser Met Lys Arg Gln
      115

```

<210> 145
 <211> 47
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (8)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (19)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 145
 Met Lys Leu Thr Ile Phe Phe Xaa Phe Pro Gln Thr Ile Thr Gly Leu
 1 5 10 15
 Leu Gln Xaa Leu Met Ser Arg Gln Val Glu Asp Val Ala Phe Leu Pro
 20 25 30
 Leu Pro His Pro Val Phe Ser Phe Ser Phe Phe Phe Pro Leu Val
 35 40 45

<210> 146
 <211> 519
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (205)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (207)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (213)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (225)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 146
 Met Gln Gly Gly Gln Arg Pro His Leu Leu Leu Leu Leu Ala Val
 1 5 10 15
 Cys Leu Gly Ala Gln Ser Arg Asn Gln Glu Glu Arg Leu Leu Ala Asp
 20 25 30
 Leu Met Arg Asn Tyr Asp Pro His Leu Arg Pro Ala Glu Arg Asp Ser
 35 40 45
 Asp Val Val Asn Val Ser Leu Lys Leu Thr Leu Thr Asn Leu Ile Ser

50					55					60					
Leu 65	Asn	Glu	Arg	Glu	Glu 70	Ala	Leu	Thr	Thr	Asn 75	Val	Trp	Ile	Glu	Met 80
Gln	Trp	Cys	Asp	Tyr 85	Arg	Leu	Arg	Trp	Asp 90	Pro	Lys	Asp	Tyr	Glu 95	Gly
Leu	Trp	Ile	Leu 100	Arg	Val	Pro	Ser	Thr 105	Met	Val	Trp	Arg	Pro 110	Asp	Ile
Val	Leu	Glu 115	Asn	Asn	Val	Asp	Gly 120	Val	Phe	Glu	Val	Ala 125	Leu	Tyr	Cys
Asn 130	Val	Leu	Val	Ser	Pro	Asp 135	Gly	Cys	Ile	Tyr	Trp 140	Leu	Pro	Pro	Ala
Ile 145	Phe	Arg	Ser	Ser	Cys 150	Ser	Ile	Ser	Val	Thr 155	Tyr	Phe	Pro	Phe	Asp 160
Trp	Gln	Asn	Cys	Ser 165	Leu	Ile	Phe	Gln	Ser 170	Gln	Thr	Tyr	Ser	Thr 175	Ser
Glu	Ile	Asn	Leu 180	Gln	Leu	Ser	Gln	Glu 185	Asp	Gly	Gln	Ala	Ile 190	Glu	Trp
Ile	Phe	Ile 195	Asp	Pro	Glu	Ala	Phe 200	Thr	Glu	Asn	Gly	Xaa 205	Trp	Xaa	Ile
Arg 210	His	Arg	Pro	Xaa	Lys	Met 215	Leu	Leu	Asp	Ser	Val 220	Ala	Pro	Ala	Glu
Xaa 225	Ala	Gly	His	Gln	Lys 230	Val	Val	Phe	Tyr	Leu 235	Leu	Ile	Gln	Arg	Lys 240
Pro	Leu	Phe	Tyr	Val 245	Ile	Asn	Ile	Ile	Ala 250	Pro	Cys	Val	Leu	Ile 255	Ser
Ser	Val	Ala	Ile 260	Leu	Ile	Tyr	Phe 265	Leu	Pro	Ala	Lys	Ala	Gly 270	Gly	Gln
Lys	Cys	Thr 275	Val	Ala	Thr	Asn	Val 280	Leu	Leu	Ala	Gln	Thr 285	Val	Phe	Leu
Phe 290	Leu	Val	Ala	Lys	Lys	Val 295	Pro	Glu	Thr	Ser	Gln 300	Ala	Val	Pro	Leu
Ile 305	Ser	Lys	Tyr	Leu	Thr 310	Phe	Leu	Met	Val	Val 315	Thr	Ile	Leu	Ile 320	Val
Val	Asn	Ser	Val	Val 325	Val	Leu	Asn	Val	Ser 330	Leu	Arg	Ser	Pro	His 335	Thr
His	Ser	Met	Ala 340	Arg	Gly	Val	Arg	Lys 345	Val	Phe	Leu	Arg	Leu 350	Leu	Pro
Gln	Leu	Leu 355	Arg	Met	His	Val	Arg	Pro 360	Leu	Ala	Pro	Ala 365	Ala	Val	Gln
Asp 370	Ala	Arg	Phe	Arg	Leu	Gln 375	Asn	Gly	Ser	Ser	Ser 380	Gly	Trp	Pro	Ile
Met 385	Ala	Arg	Glu	Glu	Gly 390	Asp	Leu	Cys	Leu	Pro 395	Arg	Ser	Glu	Leu 400	Leu
Phe	Arg	Gln	Arg	Gln	Arg	Asn	Gly	Leu	Val	Gln	Ala	Val	Leu	Glu	Lys

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<210> 147
<211> 47
<212> PRT
<213> Homo sapiens
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```
<210> 148
<211> 431
<212> PRT
<213> Homo sapiens
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<400> 148															
Met	Ser	Trp	Val	Gln	Ala	Thr	Leu	Leu	Ala	Arg	Gly	Leu	Cys	Arg	Ala
1				5					10					15	
Trp	Gly	Gly	Thr	Cys	Gly	Ala	Ala	Leu	Thr	Gly	Thr	Ser	Ile	Ser	Gln
			20					25					30		
Val	Pro	Arg	Arg	Leu	Pro	Arg	Gly	Leu	His	Cys	Ser	Ala	Ala	Ala	His
		35					40					45			
Ser	Ser	Glu	Gln	Ser	Leu	Val	Pro	Ser	Pro	Pro	Glu	Pro	Arg	Gln	Arg
	50					55					60				
Pro	Thr	Lys	Ala	Leu	Val	Pro	Phe	Glu	Asp	Leu	Phe	Gly	Gln	Ala	Pro
65					70					75					80
Gly	Gly	Glu	Arg	Asp	Lys	Ala	Ser	Phe	Leu	Gln	Thr	Val	Gln	Lys	Phe
				85					90					95	

Ala Glu His Ser Val Arg Lys Arg Gly His Ile Asp Phe Ile Tyr Leu
 100 105 110
 Ala Leu Arg Lys Met Arg Glu Tyr Gly Val Glu Arg Asp Leu Ala Val
 115 120 125
 Tyr Asn Gln Leu Leu Asn Ile Phe Pro Lys Glu Val Phe Arg Pro Arg
 130 135 140
 Asn Ile Ile Gln Arg Ile Phe Val His Tyr Pro Arg Gln Gln Glu Cys
 145 150 155 160
 Gly Ile Ala Val Leu Glu Gln Met Glu Asn His Gly Val Met Pro Asn
 165 170 175
 Lys Glu Thr Glu Phe Leu Leu Ile Gln Ile Phe Gly Arg Lys Ser Tyr
 180 185 190
 Pro Met Leu Lys Leu Val Arg Leu Lys Leu Trp Phe Pro Arg Phe Met
 195 200 205
 Asn Val Asn Pro Phe Pro Val Pro Arg Asp Leu Pro Gln Asp Pro Val
 210 215 220
 Glu Leu Ala Met Phe Gly Leu Arg His Met Glu Pro Asp Leu Ser Ala
 225 230 235 240
 Arg Val Thr Ile Tyr Gln Val Pro Leu Pro Lys Asp Ser Thr Gly Ala
 245 250 255
 Ala Asp Pro Pro Gln Pro His Ile Val Gly Ile Gln Ser Pro Asp Gln
 260 265 270
 Gln Ala Ala Leu Ala Arg His Asn Pro Ala Arg Pro Val Phe Val Glu
 275 280 285
 Gly Pro Phe Ser Leu Trp Leu Arg Asn Lys Cys Val Tyr Tyr His Ile
 290 295 300
 Leu Arg Ala Asp Leu Leu Pro Pro Glu Glu Arg Glu Val Glu Glu Thr
 305 310 315 320
 Pro Glu Glu Trp Asn Leu Tyr Tyr Pro Met Gln Leu Asp Leu Glu Tyr
 325 330 335
 Val Arg Ser Gly Trp Asp Asn Tyr Glu Phe Asp Ile Asn Glu Val Glu
 340 345 350
 Glu Gly Pro Val Phe Ala Met Cys Met Ala Gly Ala His Asp Gln Ala
 355 360 365
 Thr Met Ala Lys Trp Ile Gln Gly Leu Gln Glu Thr Asn Pro Thr Leu
 370 375 380
 Ala Gln Ile Pro Val Val Phe Arg Leu Ala Gly Ser Thr Arg Glu Leu
 385 390 395 400
 Gln Thr Ser Ser Ala Gly Leu Glu Glu Pro Pro Leu Pro Glu Asp His
 405 410 415
 Gln Glu Glu Asp Asp Asn Leu Gln Arg Gln Gln Gln Gly Gln Ser
 420 425 430

<211> 442
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (364)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 149

Met	Trp	Phe	Thr	Tyr	Leu	Leu	Leu	Tyr	Leu	His	Ser	Val	Arg	Ala	Tyr
1				5					10					15	
Ser	Ser	Arg	Gly	Ala	Gly	Cys	Cys	Cys	Cys	Trp	Ala	Arg	Trp	Arg	Arg
			20					25					30		
Ala	Val	His	Thr	Ala	Arg	Gly	Leu	Arg	Gly	Arg	Pro	Arg	Arg	Gln	Leu
		35					40					45			
Leu	Arg	Pro	Leu	Arg	Pro	Ala	Gln	Gly	Leu	Ala	Pro	Gly	Arg	His	Arg
	50					55					60				
Leu	Arg	Pro	Ala	Val	Leu	Pro	Leu	His	Leu	Gln	Pro	Leu	Pro	Gly	Leu
65					70					75					80
Trp	Gly	Gly	His	Ala	Glu	Trp	Ala	Ala	Leu	Leu	Tyr	Tyr	Gly	Pro	Phe
				85					90					95	
Ile	Val	Ile	Phe	Gln	Phe	Gly	Trp	Ala	Ser	Thr	Gln	Ile	Ser	His	Leu
			100					105					110		
Ser	Leu	Ile	Pro	Glu	Leu	Val	Thr	Asn	Asp	His	Glu	Lys	Val	Glu	Leu
		115					120					125			
Thr	Ala	Leu	Arg	Tyr	Ala	Phe	Thr	Val	Val	Ala	Asn	Ile	Thr	Val	Tyr
	130					135					140				
Gly	Ala	Ala	Trp	Leu	Leu	Leu	His	Leu	Gln	Gly	Ser	Ser	Arg	Val	Glu
145					150					155					160
Pro	Thr	Gln	Asp	Ile	Ser	Ile	Ser	Asp	Gln	Leu	Gly	Gly	Gln	Asp	Val
				165					170					175	
Pro	Val	Phe	Arg	Asn	Leu	Ser	Leu	Leu	Val	Val	Gly	Val	Gly	Ala	Val
			180					185					190		
Phe	Ser	Leu	Leu	Phe	His	Leu	Gly	Thr	Arg	Glu	Arg	Arg	Arg	Pro	His
		195					200					205			
Ala	Glu	Glu	Pro	Gly	Glu	His	Thr	Pro	Leu	Leu	Ala	Pro	Ala	Thr	Ala
	210					215					220				
Gln	Pro	Leu	Leu	Leu	Trp	Lys	His	Trp	Leu	Arg	Glu	Pro	Ala	Phe	Tyr
225					230					235					240
Gln	Val	Gly	Ile	Leu	Tyr	Met	Thr	Thr	Arg	Leu	Ile	Val	Asn	Leu	Ser
				245					250					255	
Gln	Thr	Tyr	Met	Ala	Met	Tyr	Leu	Thr	Tyr	Ser	Leu	His	Leu	Pro	Lys
			260					265					270		
Lys	Phe	Ile	Ala	Thr	Ile	Pro	Leu	Val	Met	Tyr	Leu	Ser	Gly	Phe	Leu
		275					280					285			
Ser	Ser	Phe	Leu	Met	Lys	Pro	Ile	Asn	Lys	Cys	Ile	Gly	Arg	Asn	Met
	290					295					300				

Thr Tyr Phe Ser Gly Leu Leu Val Ile Leu Ala Phe Ala Ala Trp Val
 305 310 315 320
 Ala Leu Ala Glu Gly Leu Gly Val Ala Val Tyr Ala Ala Ala Val Leu
 325 330 335
 Leu Gly Ala Gly Cys Ala Thr Ile Leu Val Thr Ser Leu Ala Met Thr
 340 345 350
 Ala Asp Leu Ile Gly Pro His Thr Asn Ser Gly Xaa Phe Val Tyr Gly
 355 360 365
 Ser Met Ser Phe Leu Asp Lys Val Ala Asn Gly Leu Ala Val Met Ala
 370 375 380
 Ile Gln Ser Leu His Pro Cys Pro Ser Glu Leu Cys Cys Arg Ala Cys
 385 390 395 400
 Val Ser Phe Tyr His Trp Ala Met Val Ala Val Thr Gly Gly Val Gly
 405 410 415
 Val Ala Ala Ala Leu Cys Leu Cys Ser Leu Leu Leu Trp Pro Thr Arg
 420 425 430
 Leu Arg Arg Trp Asp Arg Asp Ala Arg Pro
 435 440

<210> 150
 <211> 75
 <212> PRT
 <213> Homo sapiens

<400> 150
 Met Ser Arg Phe Ile Leu Asn His Leu Val Leu Ala Ile Pro Leu Arg
 1 5 10 15
 Val Leu Val Val Leu Trp Ala Phe Val Leu Gly Leu Ser Arg Val Met
 20 25 30
 Leu Gly Arg His Asn Val Thr Asp Val Ala Phe Gly Phe Phe Leu Gly
 35 40 45
 Tyr Met Gln Tyr Ser Ile Val Asp Tyr Cys Trp Leu Ser Pro His Asn
 50 55 60
 Ala Pro Val Leu Phe Leu Leu Trp Ser Gln Arg
 65 70 75

<210> 151
 <211> 51
 <212> PRT
 <213> Homo sapiens

<400> 151
 Met Ala Gly Trp Phe Arg Gly Phe Phe Gly Phe Leu Phe Phe Leu
 1 5 10 15
 Cys Leu Phe Asn Leu Lys Leu Phe Lys Leu Lys His Ser Gln Met Phe
 20 25 30
 Gly Gly Lys His Pro Leu Lys Met Gly Pro Cys Ala Cys Leu Leu Gly

35

40

45

Arg Arg Ser
50

<210> 152

<211> 209

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 152

Met Ala Xaa Ser Ser Arg Gly Asn Ala Asp Ser Ile Val Ala Ser Leu
1 5 10 15

Val Leu Met Val Leu Tyr Leu Ile Lys Lys Arg Leu Val Ala Cys Ala
20 25 30

Ala Val Phe Tyr Gly Phe Xaa Val His Met Lys Ile Tyr Pro Val Thr
35 40 45

Tyr Ile Leu Pro Ile Thr Leu His Leu Leu Pro Asp Arg Asp Asn Asp
50 55 60

Lys Ser Leu Arg Gln Phe Arg Tyr Thr Phe Gln Ala Cys Leu Tyr Glu
65 70 75 80

Leu Leu Lys Lys Leu Cys Asn Arg Ala Val Leu Leu Phe Val Ala Val
85 90 95

Ala Gly Leu Thr Phe Phe Ala Leu Ser Phe Gly Phe Tyr Tyr Glu Tyr
100 105 110

Gly Trp Glu Phe Leu Glu His Thr Tyr Phe Tyr His Leu Thr Arg Arg
115 120 125

Asp Ile Arg His Asn Phe Ser Pro Tyr Phe Tyr Met Leu Tyr Leu Thr
130 135 140

Ala Glu Ser Lys Trp Ser Phe Ser Leu Gly Ile Ala Ala Phe Leu Pro
145 150 155 160

Gln Leu Ile Leu Leu Ser Ala Val Ser Phe Ala Tyr Tyr Arg Asp Leu
165 170 175

Val Phe Cys Cys Phe Leu His Thr Ser Ile Phe Val Thr Phe Asn Lys
180 185 190

Val Cys Thr Ser Gln Tyr Phe Leu Trp Val Pro Leu Ala Tyr Cys Leu
195 200 205

Leu

<210> 153
 <211> 218
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (168)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (174)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (198)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (213)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 153
 Met Arg Ala Leu Leu Ala Leu Cys Leu Leu Leu Gly Trp Leu Arg Trp
 1 5 10 15
 Gly Pro Ala Gly Ala Gln Gln Ser Gly Glu Tyr Cys His Gly Trp Val
 20 25 30
 Asp Val Gln Gly Asn Tyr His Glu Gly Phe Gln Cys Pro Glu Asp Phe
 35 40 45
 Asp Thr Leu Asp Ala Thr Ile Cys Cys Gly Ser Cys Ala Leu Arg Tyr
 50 55 60
 Cys Cys Ala Ala Ala Asp Ala Arg Leu Glu Gln Gly Gly Cys Thr Asn
 65 70 75 80
 Asp Arg Arg Glu Leu Glu His Pro Gly Ile Thr Ala Gln Pro Val Tyr
 85 90 95
 Val Pro Phe Leu Ile Val Gly Ser Ile Phe Ile Ala Phe Ile Ile Leu
 100 105 110
 Gly Ser Val Val Ala Ile Tyr Cys Cys Thr Cys Leu Arg Pro Lys Glu
 115 120 125
 Pro Ser Gln Gln Pro Ile Arg Phe Ser Leu Arg Ser Tyr Gln Thr Glu
 130 135 140
 Thr Leu Pro Met Ile Leu Thr Ser Thr Ser Pro Arg Ala Pro Ser Arg
 145 150 155 160
 Gln Ser Ser Thr Ala Thr Ser Xaa Ser Phe Thr Gly Gly Xaa Ile Arg
 165 170 175
 Arg Phe Phe Ser Ala Ile Trp Phe Pro Gly Val Thr Pro Val Phe Arg
 180 185 190
 Leu Pro Pro Ser Ala Xaa Ala Pro Thr Gly Trp Glu Glu Leu Ser Arg
 195 200 205

Leu Ser Val Pro Xaa Asp Thr Pro Arg Pro
210 215

<210> 154

<211> 49

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 154

Met Gly Ala His Ser Phe Gly Phe Gln Leu Phe Met Ser Val Ser Val
1 5 10 15

Leu Trp Gly Arg Leu Cys Leu Tyr Gly Arg Phe Ser Val Ile Thr Phe
20 25 30

Ala Ser Pro Pro Thr Thr Phe Met Xaa Ile Gln Cys Cys Ser His Cys
35 40 45

Ser

<210> 155

<211> 40

<212> PRT

<213> Homo sapiens

<400> 155

Met His Ile His Leu Asp Thr Ser Ser Leu Lys Thr Leu His Leu Gly
1 5 10 15

Thr Leu Phe Phe Leu Phe Tyr Leu Ala Leu Thr Gln Asn Glu Glu Asn
20 25 30

Ile Cys Asp Gly Lys Val Thr Leu
35 40

<210> 156

<211> 107

<212> PRT

<213> Homo sapiens

<400> 156

Met Pro Ile Ile Val Leu Ile Leu Val Ser Leu Leu Ser Gln Leu Met
1 5 10 15

Val Ser Asn Pro Pro Tyr Ser Leu Tyr Pro Arg Ser Gly Thr Gly Gln
20 25 30

Thr Ile Lys Met Gln Thr Glu Asn Leu Gly Val Val Tyr Tyr Val Asn
35 40 45

Lys Asp Phe Lys Asn Glu Tyr Lys Gly Met Leu Leu Gln Lys Val Glu
50 55 60

Lys Ser Val Glu Glu Asp Tyr Val Thr Asn Ile Arg Asn Asn Cys Trp

65					70						75				80
Lys	Glu	Arg	Gln	Gln	Lys	Thr	Asp	Met	Gln	Tyr	Ala	Ala	Lys	Val	Tyr
			85						90					95	
Arg	Asp	Asp	Arg	Leu	Arg	Arg	Arg	Gln	Met	Pro					
			100					105							

<210> 157
 <211> 156
 <212> PRT
 <213> Homo sapiens

<400> 157
 Met Gln Ala Ser Leu Trp Glu Pro Pro Arg Ser Gly Leu Pro Leu Trp
 1 5 10 15
 Ala Glu Gly Leu Thr Phe Phe Tyr Cys Tyr Met Leu Leu Leu Val Leu
 20 25 30
 Pro Cys Val Ala Leu Ser Glu Val Ser Met Gln Gly Glu His Ile Ala
 35 40 45
 Pro Gln Lys Met Met Leu Tyr Pro Val Leu Ser Leu Ala Thr Val Asn
 50 55 60
 Val Val Ala Val Leu Ala Arg Ala Ala Asn Met Ala Leu Phe Arg Asp
 65 70 75 80
 Ser Arg Val Ser Ala Ile Phe Val Gly Lys Asn Val Val Ala Leu Ala
 85 90 95
 Thr Lys Ala Cys Thr Phe Leu Glu Tyr Arg Arg Gln Val Arg Asp Phe
 100 105 110
 Pro Pro Pro Ala Leu Ser Leu Glu Leu Gln Pro Pro Pro Pro Gln Arg
 115 120 125
 Asn Ser Val Pro Pro Pro Pro Pro Leu His Gly Pro Pro Gly Arg Pro
 130 135 140
 His Met Ser Ser Pro Thr Arg Asp Pro Leu Asp Thr
 145 150 155

<210> 158
 <211> 150
 <212> PRT
 <213> Homo sapiens

<400> 158
 Met Gly Tyr Leu Phe Phe Leu Leu Phe Met Ile Cys Trp Met Ile Tyr
 1 5 10 15
 Gly Cys Ile Ser Tyr Trp Gly Leu His Cys Glu Thr Thr Tyr Thr Lys
 20 25 30
 Asp Gly Phe Trp Thr Tyr Ile Thr Gln Ile Ala Thr Cys Ser Pro Trp
 35 40 45
 Met Phe Trp Met Phe Leu Asn Ser Val Phe His Phe Met Trp Val Ala
 50 55 60

Val Leu Leu Met Cys Gln Met Tyr Gln Ile Ser Cys Leu Gly Ile Thr
 65 70 75 80
 Thr Asn Glu Arg Met Asn Ala Arg Arg Tyr Lys His Phe Lys Val Thr
 85 90 95
 Thr Thr Ser Ile Glu Ser Pro Phe Asn His Gly Cys Val Arg Asn Ile
 100 105 110
 Ile Asp Phe Phe Glu Phe Arg Cys Cys Gly Leu Phe Arg Pro Val Ile
 115 120 125
 Val Asp Trp Thr Arg Gln Tyr Thr Ile Glu Tyr Asp Gln Ile Ser Gly
 130 135 140
 Ser Gly Tyr Gln Leu Val
 145 150

<210> 159
 <211> 70
 <212> PRT
 <213> Homo sapiens

<400> 159
 Met Ala Leu Thr Leu Leu Leu Ile Gln Ile Ile Phe Leu Ala Leu Gly
 1 5 10 15
 Lys Ile Ser Phe Ile Phe Val Cys Cys Lys Asp Gly Phe Ala Arg Ile
 20 25 30
 Ser His Asp Gln Asp Lys Leu Pro Ile Gln Lys Pro Thr Asp Thr Asn
 35 40 45
 Tyr Ile Met Arg Lys Lys Cys Ile Gln Leu Gly His Ile Ser Phe Glu
 50 55 60
 Leu Phe Gly Leu Lys Ala
 65 70

<210> 160
 <211> 490
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (134)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (389)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 160
 Met Leu Ala Leu Thr Phe Met Phe Met Val Leu Glu Val Val Val Ser
 1 5 10 15
 Arg Val Thr Ser Ser Leu Ala Met Leu Ser Asp Ser Phe His Met Leu
 20 25 30
 Ser Asp Val Leu Ala Leu Val Val Ala Leu Val Ala Glu Arg Phe Ala

35					40					45					
Arg	Arg	Thr	His	Ala	Thr	Gln	Lys	Asn	Thr	Phe	Gly	Trp	Ile	Arg	Ala
	50					55					60				
Glu	Val	Met	Gly	Ala	Leu	Val	Asn	Ala	Ile	Phe	Leu	Thr	Gly	Leu	Cys
65					70					75					80
Phe	Ala	Ile	Leu	Leu	Glu	Ala	Ile	Glu	Arg	Phe	Ile	Glu	Pro	His	Glu
			85						90					95	
Met	Gln	Gln	Pro	Leu	Val	Val	Leu	Gly	Val	Gly	Val	Ala	Gly	Leu	Leu
			100					105					110		
Val	Asn	Val	Leu	Gly	Leu	Cys	Leu	Phe	His	His	His	Ser	Gly	Phe	Ser
		115					120					125			
Gln	Asp	Ser	Gly	His	Xaa	His	Ser	His	Gly	Gly	His	Gly	His	Gly	His
	130					135					140				
Gly	Leu	Pro	Lys	Gly	Pro	Arg	Val	Lys	Ser	Thr	Arg	Pro	Gly	Ser	Ser
145					150					155					160
Asp	Ile	Asn	Val	Ala	Pro	Gly	Glu	Gln	Gly	Pro	Asp	Gln	Glu	Glu	Thr
				165					170					175	
Asn	Thr	Leu	Val	Ala	Asn	Thr	Ser	Asn	Ser	Asn	Gly	Leu	Lys	Leu	Asp
			180					185					190		
Pro	Ala	Asp	Pro	Glu	Asn	Pro	Arg	Ser	Gly	Asp	Thr	Val	Glu	Val	Gln
		195					200					205			
Val	Asn	Gly	Asn	Leu	Val	Arg	Glu	Pro	Asp	His	Met	Glu	Leu	Glu	Glu
	210					215					220				
Asp	Arg	Ala	Gly	Gln	Leu	Asn	Met	Arg	Gly	Val	Phe	Leu	His	Val	Leu
225					230					235					240
Gly	Asp	Ala	Leu	Gly	Ser	Val	Ile	Val	Val	Val	Asn	Ala	Leu	Val	Phe
				245					250					255	
Tyr	Phe	Ser	Trp	Lys	Gly	Cys	Ser	Glu	Gly	Asp	Phe	Cys	Val	Asn	Pro
			260					265					270		
Cys	Phe	Pro	Asp	Pro	Cys	Lys	Pro	Phe	Val	Glu	Ile	Ile	Asn	Ser	Thr
		275					280					285			
His	Ala	Ser	Val	Tyr	Glu	Ala	Gly	Pro	Cys	Trp	Val	Leu	Tyr	Leu	Asp
	290					295					300				
Pro	Thr	Leu	Cys	Val	Val	Met	Val	Cys	Ile	Leu	Leu	Tyr	Thr	Thr	Tyr
305					310					315					320
Pro	Leu	Leu	Lys	Glu	Ser	Ala	Leu	Ile	Leu	Leu	Gln	Thr	Val	Pro	Lys
				325					330					335	
Gln	Ile	Asp	Ile	Arg	Asn	Leu	Ile	Lys	Glu	Leu	Arg	Asn	Val	Glu	Gly
			340					345					350		
Val	Glu	Glu	Val	His	Glu	Leu	His	Val	Trp	Gln	Leu	Ala	Gly	Ser	Arg
		355					360					365			
Ile	Ile	Ala	Thr	Ala	His	Ile	Lys	Cys	Glu	Asp	Pro	Thr	Ser	Tyr	Met
	370					375					380				
Glu	Val	Ala	Lys	Xaa	Ile	Lys	Asp	Val	Phe	His	Asn	His	Gly	Ile	His

385		390		395		400
Ala Thr Thr Ile Gln Pro Glu Phe Ala Ser Val Gly Ser Lys Ser Ser	405		410		415	
Val Val Pro Cys Glu Leu Ala Cys Arg Thr Gln Cys Ala Leu Lys Gln	420		425		430	
Cys Cys Gly Thr Leu Pro Gln Ala Pro Ser Gly Lys Asp Ala Glu Lys	435		440		445	
Thr Pro Ala Val Ser Ile Ser Cys Leu Glu Leu Ser Asn Asn Leu Glu	450		455		460	
Lys Lys Pro Arg Arg Thr Lys Ala Glu Asn Ile Pro Ala Val Val Ile	465		470		475	480
Glu Ile Lys Asn Met Pro Lys Gln Thr Thr	485		490			

<210> 161
 <211> 31
 <212> PRT
 <213> Homo sapiens

<400> 161
Met Gln Pro Cys Val Ile Ser Trp Glu Gln Cys Ser Phe Val Ser Pro
1 5 10 15
Arg Gly Pro His Val Tyr Ile Cys Phe His Asp Gln Arg Arg Phe
20 25 30

<210> 162
 <211> 115
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (96)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (100)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 162
Met Leu Gly Leu Leu Gly Ser Thr Ala Leu Val Gly Trp Ile Thr Gly
1 5 10 15
Ala Ala Val Ala Val Leu Leu Leu Leu Leu Leu Ala Thr Cys Leu
20 25 30
Phe His Gly Arg Gln Asp Cys Asp Val Glu Arg Asn Arg Thr Ala Ala
35 40 45
Gly Gly Asn Arg Val Arg Arg Ala Gln Pro Trp Pro Phe Arg Arg Arg
50 55 60
Gly His Leu Gly Ile Phe His His His Arg His Pro Gly His Val Ser
65 70 75 80

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<210> 163
<211> 473
<212> PRT
<213> Homo sapiens
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<400>	163														
Met	Lys	Arg	Ala	Ser	Ala	Gly	Gly	Ser	Arg	Leu	Leu	Ala	Trp	Val	Leu
1				5					10					15	
Trp	Leu	Gln	Ala	Trp	Gln	Val	Ala	Ala	Pro	Cys	Pro	Gly	Ala	Cys	Val
			20					25					30		
Cys	Tyr	Asn	Glu	Pro	Lys	Val	Thr	Thr	Ser	Cys	Pro	Gln	Gln	Gly	Leu
		35					40					45			
Gln	Ala	Val	Pro	Val	Gly	Ile	Pro	Ala	Ala	Ser	Gln	Arg	Ile	Phe	Leu
	50					55					60				
His	Gly	Asn	Arg	Ile	Ser	His	Val	Pro	Ala	Ala	Ser	Phe	Arg	Ala	Cys
65					70					75					80
Arg	Asn	Leu	Thr	Ile	Leu	Trp	Leu	His	Ser	Asn	Val	Leu	Ala	Arg	Ile
				85					90					95	
Asp	Ala	Ala	Ala	Phe	Thr	Gly	Leu	Ala	Leu	Leu	Glu	Gln	Leu	Asp	Leu
			100					105					110		
Ser	Asp	Asn	Ala	Gln	Leu	Arg	Ser	Val	Asp	Pro	Ala	Thr	Phe	His	Gly
		115					120					125			
Leu	Gly	Arg	Leu	His	Thr	Leu	His	Leu	Asp	Arg	Cys	Gly	Leu	Gln	Glu
	130					135					140				
Leu	Gly	Pro	Gly	Leu	Phe	Arg	Gly	Leu	Ala	Ala	Leu	Gln	Tyr	Leu	Tyr
145					150					155					160
Leu	Gln	Asp	Asn	Ala	Leu	Gln	Ala	Leu	Pro	Asp	Asp	Thr	Phe	Arg	Asp
				165					170					175	
Leu	Gly	Asn	Leu	Thr	His	Leu	Phe	Leu	His	Gly	Asn	Arg	Ile	Ser	Ser
			180					185					190		
Val	Pro	Glu	Arg	Ala	Phe	Arg	Gly	Leu	His	Ser	Leu	Asp	Arg	Leu	Leu
		195					200					205			
Leu	His	Gln	Asn	Arg	Val	Ala	His	Val	His	Pro	His	Ala	Phe	Arg	Asp
	210					215					220				
Leu	Gly	Arg	Leu	Met	Thr	Leu	Tyr	Leu	Phe	Ala	Asn	Asn	Leu	Ser	Ala
225					230					235					240
Leu	Pro	Thr	Glu	Ala	Leu	Ala	Pro	Leu	Arg	Ala	Leu	Gln	Tyr	Leu	Arg
				245					250					255	

Leu Asn Asp Asn Pro Trp Val Cys Asp Cys Arg Ala Arg Pro Leu Trp
 260 265 270
 Ala Trp Leu Gln Lys Phe Arg Gly Ser Ser Ser Glu Val Pro Cys Ser
 275 280 285
 Leu Pro Gln Arg Leu Ala Gly Arg Asp Leu Lys Arg Leu Ala Ala Asn
 290 295 300
 Asp Leu Gln Gly Cys Ala Val Ala Thr Gly Pro Tyr His Pro Ile Trp
 305 310 315 320
 Thr Gly Arg Ala Thr Asp Glu Glu Pro Leu Gly Leu Pro Lys Cys Cys
 325 330 335
 Gln Pro Asp Ala Ala Asp Lys Ala Ser Val Leu Glu Pro Gly Arg Pro
 340 345 350
 Ala Ser Ala Gly Asn Ala Leu Lys Gly Arg Val Pro Pro Gly Asp Ser
 355 360 365
 Pro Pro Gly Asn Gly Ser Gly Pro Arg His Ile Asn Asp Ser Pro Phe
 370 375 380
 Gly Thr Leu Pro Gly Ser Ala Glu Pro Pro Ala His Cys Ser Ala Ala
 385 390 395 400
 Arg Gly Leu Arg Ala Thr Arg Phe Pro Thr Ser Gly Pro Arg Arg Arg
 405 410 415
 Pro Gly Cys Ser Arg Lys Asn Arg Thr Arg Ser His Cys Arg Leu Gly
 420 425 430
 Gln Ala Gly Ser Gly Gly Gly Gly Thr Gly Asp Ser Glu Gly Ser Gly
 435 440 445
 Ala Leu Pro Ser Leu Thr Cys Ser Leu Thr Pro Leu Gly Leu Ala Leu
 450 455 460
 Val Leu Trp Thr Val Leu Gly Pro Cys
 465 470

<210> 164

<211> 91

<212> PRT

<213> Homo sapiens

<400> 164

Met Arg Leu Cys Val Thr Gly Pro Pro Val Phe Phe Phe Phe Leu Asn
 1 5 10 15
 Phe Phe Phe Phe Leu Cys Val Gly Ala Cys Leu Gly Asp Leu Lys Ile
 20 25 30
 Ser Arg Leu Val Tyr Leu Cys Lys Ala Cys Leu Arg Leu Glu Tyr Leu
 35 40 45
 Gly Lys Glu Ser Asp Ser Met Leu Ser Glu Phe Leu Lys Gly Gln Lys
 50 55 60
 Lys Asn Trp Arg Leu Leu Lys Cys Arg Phe Glu Val Ile Phe Leu Lys
 65 70 75 80
 Tyr Tyr Phe Gly Phe Cys Asp Ile Val Lys Asn

<210> 165
 <211> 44
 <212> PRT
 <213> Homo sapiens

<400> 165
 Met Lys Lys His Thr Lys Cys Gln Trp Leu Lys Met Thr Ile Leu Phe
 1 5 10 15
 Leu Thr Val Met Lys Ile Gly Tyr Gly Thr Ser Ala Ser Cys Tyr Arg
 20 25 30
 Pro Glu Val Leu Gly Leu Leu Met Pro His Pro Leu
 35 40

<210> 166
 <211> 45
 <212> PRT
 <213> Homo sapiens

<400> 166
 Met Ser Cys Gly Cys Cys Phe Ile His Ile Tyr Asn Leu Leu Leu Ser
 1 5 10 15
 Leu Cys Tyr Gly Leu Gly Val Glu Arg Val Lys Phe Phe Thr Phe Ser
 20 25 30
 Ile Leu Lys Lys Glu Thr Met Leu Leu Asn Tyr Leu Phe
 35 40 45

<210> 167
 <211> 128
 <212> PRT
 <213> Homo sapiens

<400> 167
 Met Leu Ser Ser Pro Ile Leu Ala Ser Gly Pro Ala Trp Leu Ala Cys
 1 5 10 15
 Ser Phe Ser His Val Gln Trp Trp Val Cys Leu Ile Ala Gln Val Gln
 20 25 30
 Phe Ser Ala Ala Thr Val Ser Pro Gly Arg Ala Gly Thr Gly Ala Ala
 35 40 45
 Pro Ser Val Pro Ala Val Trp Ala Ala Glu Ala Arg Gly Pro Ser Val
 50 55 60
 Pro Ser Thr Leu Gln Gly Ser Pro Val Leu Gln Arg Asp Leu Ala Asn
 65 70 75 80
 Pro Pro Pro Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
 85 90 95
 Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
 100 105 110
 Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Gly Gly Pro

115

120

125

<210> 168

<211> 57

<212> PRT

<213> Homo sapiens

<400> 168

Met His Pro Trp Arg Leu Ser Met Cys Pro Ala Cys Val Leu Ala Ala
1 5 10 15Leu Pro Ala Leu Cys Ser Cys Leu Cys Ser Pro Asp Ala Arg Pro Pro
20 25 30His Gly Trp Met Ser Met Pro Phe Thr Pro His Pro Leu Val Ser Arg
35 40 45Ala Met Pro Thr Cys His Pro Cys Ser
50 55

<210> 169

<211> 97

<212> PRT

<213> Homo sapiens

<400> 169

Met Tyr Arg Ala Ile Asp Ser Phe Pro Arg Trp Arg Ser Tyr Phe Tyr
1 5 10 15Phe Ile Thr Leu Ile Phe Phe Leu Ala Trp Leu Val Lys Asn Val Phe
20 25 30Ile Ala Val Ile Ile Glu Thr Phe Ala Glu Ile Arg Val Gln Phe Gln
35 40 45Gln Met Trp Gly Ser Arg Ser Ser Thr Thr Ser Thr Ala Thr Thr Gln
50 55 60Met Phe His Glu Asp Ala Ala Gly Gly Trp Gln Leu Val Ala Val Gly
65 70 75 80Cys Gln Gln Ala Pro Gly Thr Arg Pro Ser Leu Pro Pro Gly Ala Val
85 90 95

Gln

<210> 170

<211> 59

<212> PRT

<213> Homo sapiens

<400> 170

Met Thr Ser Phe Cys Glu Met Leu Lys Gly Ser Ala Ala Gly Cys Leu
1 5 10 15

Val Leu Leu Ala Phe Ala Phe Tyr Leu Ala Cys Ser Phe Ser His Lys

20 25 30
 Thr Lys Ser His Ser His Tyr Ala Leu Phe Ile Leu Gln Asp Tyr Leu
 35 40 45
 Leu Gly Asn Phe Tyr Tyr Ile Pro Leu Ser Pro
 50 55

<210> 171
 <211> 42
 <212> PRT
 <213> Homo sapiens

<400> 171
 Met Ser Val Ala His Met His Ala Cys Val Phe Leu Cys Ala Cys Val
 1 5 10 15
 Phe Cys Leu Ala Glu Asn Ala Leu Glu Ser Val Ile Ile Leu Cys Tyr
 20 25 30
 Ser Tyr Asn Lys Asp Glu Val Arg Glu His
 35 40

<210> 172
 <211> 54
 <212> PRT
 <213> Homo sapiens

<400> 172
 Met Lys Thr His Leu Leu Met Phe Leu Leu Ser Cys Met Ala Arg Cys
 1 5 10 15
 Thr Gly Ile Val Pro Lys Arg Pro Gln Pro Ala Phe Pro Leu Arg Gly
 20 25 30
 Arg Arg Arg Lys Asn Ser Phe Leu Phe Leu Leu Ser Phe Ser Ile Glu
 35 40 45
 Phe Leu Leu Cys Val Trp
 50

<210> 173
 <211> 53
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (11)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 173
 Met Cys Lys Ala Val Cys Lys His Arg Leu Xaa Leu Phe Ala Val Ser
 1 5 10 15
 Ser Phe Ser Leu Gly Leu Gly Trp Val Cys Val Leu Val Leu Met Leu
 20 25 30
 Trp Pro Val Arg Leu Ser Leu Ala Pro Arg Pro Val Gln Leu Gln Gln
 35 40 45

Arg Arg Ser His Cys
50

<210> 174
<211> 53
<212> PRT
<213> Homo sapiens

<400> 174
Met Phe Thr Ala Pro Leu Phe Phe Phe Phe Phe Phe Glu Ile Ile Asn
1 5 10 15
Ser Met Arg Asn Leu Gly Leu Asn Ile Cys Leu Leu Cys Leu Leu Ile
20 25 30
Glu His His Ser Arg Pro Ser Val Cys Leu Pro Phe Thr Pro Lys Ile
35 40 45
Leu Thr Lys Lys Phe
50

<210> 175
<211> 48
<212> PRT
<213> Homo sapiens

<400> 175
Met Leu Cys Phe Leu Pro Ile Pro Leu Leu Ser Ile Leu Ser Pro Gln
1 5 10 15
Thr Gln Ala Ser Arg Leu Leu Asp Glu Thr Val Arg Arg Lys His Phe
20 25 30
Leu Thr Tyr Pro Phe Gly Ile Ser Ser Ile Ile Thr Gln Ala Leu Leu
35 40 45

<210> 176
<211> 224
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (183)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (214)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 176
Met Val Leu Val Ala Leu Ile Leu Leu His Ser Ala Leu Ala Gln Ser
1 5 10 15
Arg Arg Asp Phe Ala Pro Pro Gly Gln Gln Lys Arg Glu Ala Pro Val

20					25					30					
Asp	Val	Leu	Thr	Gln	Ile	Gly	Arg	Ser	Val	Arg	Gly	Thr	Leu	Asp	Ala
		35					40					45			
Trp	Ile	Gly	Pro	Glu	Thr	Met	His	Leu	Val	Ser	Glu	Ser	Ser	Ser	Gln
	50					55					60				
Val	Leu	Trp	Ala	Ile	Ser	Ser	Ala	Ile	Ser	Val	Ala	Phe	Phe	Ala	Leu
	65					70					75				80
Ser	Gly	Ile	Ala	Ala	Gln	Leu	Leu	Asn	Ala	Leu	Gly	Leu	Ala	Gly	Asp
				85					90					95	
Tyr	Leu	Ala	Gln	Gly	Leu	Lys	Leu	Ser	Pro	Gly	Gln	Val	Gln	Thr	Phe
			100					105					110		
Leu	Leu	Trp	Gly	Ala	Gly	Ala	Leu	Val	Val	Tyr	Trp	Leu	Leu	Ser	Leu
		115					120					125			
Leu	Leu	Gly	Leu	Val	Leu	Ala	Leu	Leu	Gly	Arg	Ile	Leu	Trp	Gly	Leu
	130					135					140				
Lys	Leu	Val	Ile	Phe	Leu	Ala	Gly	Phe	Val	Ala	Leu	Met	Arg	Ser	Val
	145					150					155				160
Pro	Asp	Pro	Ser	Thr	Arg	Ala	Leu	Leu	Leu	Leu	Ala	Leu	Leu	Ile	Leu
				165					170					175	
Tyr	Ala	Leu	Leu	Ser	Arg	Xaa	Thr	Gly	Ser	Arg	Ala	Ser	Gly	Ala	Gln
			180					185					190		
Leu	Glu	Ala	Lys	Val	Arg	Gly	Leu	Glu	Arg	Gln	Val	Glu	Glu	Leu	Arg
		195					200					205			
Trp	Arg	Gln	Arg	Gln	Xaa	Ala	Lys	Gly	Ala	Arg	Ser	Val	Glu	Glu	Glu
	210					215					220				

<210> 177
 <211> 200
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (10)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (11)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (27)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (84)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (178)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (180)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (190)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 177

Met	Leu	Gln	Arg	Met	Leu	Ile	Asp	Val	Xaa	Xaa	Phe	Leu	Phe	Leu	Phe
1				5					10					15	

Ala	Val	Trp	Met	Val	Ala	Phe	Gly	Val	Ala	Xaa	Gln	Gly	Ile	Leu	Arg
			20					25					30		

Gln	Asn	Glu	Gln	Arg	Trp	Arg	Trp	Ile	Phe	Arg	Ser	Val	Ile	Tyr	Glu
		35					40					45			

Pro	Xaa	Leu	Ala	Met	Phe	Gly	Gln	Val	Pro	Ser	Xaa	Val	Asp	Gly	Thr
	50					55					60				

Thr	Tyr	Asp	Phe	Ala	His	Cys	Thr	Phe	Thr	Gly	Asn	Glu	Ser	Lys	Pro
65					70					75					80

Leu	Cys	Val	Xaa	Leu	Asp	Glu	His	Asn	Leu	Pro	Arg	Phe	Pro	Glu	Trp
				85					90					95	

Ile	Thr	Ile	Pro	Leu	Val	Cys	Ile	Tyr	Met	Leu	Ser	Thr	Asn	Ile	Leu
			100					105					110		

Leu	Val	Asn	Leu	Leu	Val	Ala	Met	Phe	Gly	Tyr	Thr	Val	Gly	Thr	Val
		115					120					125			

Gln	Glu	Asn	Asn	Asp	Gln	Val	Trp	Lys	Phe	Gln	Arg	Tyr	Phe	Leu	Val
	130					135					140				

Gln	Glu	Tyr	Cys	Ser	Arg	Leu	Asn	Ile	Pro	Phe	Pro	Phe	Ile	Val	Phe
145					150					155					160

Ala	Tyr	Phe	Tyr	Met	Val	Val	Lys	Lys	Cys	Phe	Lys	Cys	Cys	Cys	Lys
				165					170					175	

Glu	Xaa	Asn	Xaa	Glu	Ser	Ser	Val	Cys	Cys	Ser	Lys	Met	Xaa	Thr	Met
			180					185					190		

Arg	Leu	Trp	His	Gly	Arg	Val	Ser
		195					200

<210> 178
 <211> 93
 <212> PRT
 <213> Homo sapiens

<400> 178
 Met Pro Arg Ala Thr Leu Trp Gly His Leu Ser Pro Ala Trp Val Leu
 1 5 10 15
 Val Pro Trp Thr Pro Arg Ala Cys Gly Gln Ala Ala Pro Gly Arg Gly
 20 25 30
 His Val Ala Ser Asp His Lys Ser Gly Leu Pro Trp Pro Lys His Cys
 35 40 45
 Ser Cys Leu His Pro Arg Ala Ser Gln Pro Cys Leu Phe Ser Leu Asn
 50 55 60
 Ser Asn Arg Thr Val Phe Thr Ala Ile Gln Arg Val Ala Leu Gly Trp
 65 70 75 80
 Thr Phe Trp Val Gln Ala Asn Leu Val Pro Arg Cys Thr
 85 90

<210> 179
 <211> 404
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (41)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (77)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (96)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (98)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (108)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (122)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE

<222> (124)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (126)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (175)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (192)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (210)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (236)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (239)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (309)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (335)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (389)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 179
 Met His Pro Ile Pro Ser Ser Phe Met Ile Lys Ala Val Ser Ser Phe
 1 5 10 15
 Leu Thr Ala Glu Glu Ala Ser Val Gly Asn Pro Glu Gly Ala Phe Met
 20 25 30
 Lys Val Leu Gln Ala Arg Lys Asn Xaa Thr Ser Thr Glu Leu Ile Val
 35 40 45
 Glu Pro Glu Glu Pro Ser Asp Ser Ser Gly Ile Asn Leu Ser Gly Phe
 50 55 60
 Gly Ser Glu Gln Leu Asp Thr Asn Asp Glu Ser Asp Xaa Ile Ser Thr
 65 70 75 80
 Leu Ser Tyr Ile Leu Pro Tyr Phe Ser Ala Val Asn Leu Asp Val Xaa
 85 90 95

Ser Xaa Leu Leu Pro Phe Ile Lys Leu Pro Thr Xaa Gly Asn Ser Leu
 100 105 110
 Ala Lys Ile Gln Thr Val Gly Gln Asn Xaa Gln Xaa Val Xaa Arg Val
 115 120 125
 Leu Met Gly Pro Arg Ser Ile Gln Lys Arg His Phe Lys Glu Val Gly
 130 135 140
 Arg Gln Ser Ile Arg Arg Glu Gln Gly Ala Gln Ala Ser Val Glu Asn
 145 150 155 160
 Ala Ala Glu Glu Lys Arg Leu Gly Ser Pro Ala Pro Arg Glu Xaa Glu
 165 170 175
 Gln Pro His Thr Gln Gln Gly Pro Glu Lys Leu Ala Gly Asn Ala Xaa
 180 185 190
 Tyr Thr Lys Pro Ser Phe Thr Gln Glu His Lys Ala Ala Val Ser Val
 195 200 205
 Leu Xaa Pro Phe Ser Lys Gly Ala Pro Ser Thr Ser Ser Pro Ala Lys
 210 215 220
 Ala Leu Pro Gln Val Arg Asp Arg Trp Lys Asp Xaa Thr His Xaa Ile
 225 230 235 240
 Ser Ile Leu Glu Ser Ala Lys Ala Arg Val Thr Asn Met Lys Ala Ser
 245 250 255
 Lys Pro Ile Ser His Ser Arg Lys Lys Tyr Arg Phe His Lys Thr Arg
 260 265 270
 Ser Arg Met Thr His Arg Thr Pro Lys Val Lys Lys Ser Pro Lys Phe
 275 280 285
 Arg Lys Lys Ser Tyr Leu Ser Arg Leu Met Leu Ala Asn Arg Pro Pro
 290 295 300
 Phe Ser Ala Ala Xaa Ser Leu Ile Asn Ser Pro Ser Gln Gly Ala Phe
 305 310 315 320
 Ser Ser Leu Gly Asp Leu Ser Pro Gln Glu Asn Pro Phe Leu Xaa Val
 325 330 335
 Ser Ala Pro Ser Glu His Phe Ile Glu Thr Thr Asn Ile Lys Asp Thr
 340 345 350
 Thr Ala Arg Asn Ala Leu Glu Glu Asn Val Phe Met Glu Asn Thr Asn
 355 360 365
 Met Pro Glu Val Thr Ile Ser Glu Asn Thr Asn Tyr Asn His Pro Pro
 370 375 380
 Glu Ala Asp Ser Xaa Gly Thr Ala Phe Asn Leu Gly Pro Thr Val Lys
 385 390 395 400
 Gln Thr Glu Thr

<210> 180
 <211> 387
 <212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (228)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (359)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 180

Met	Gly	Ala	Phe	Leu	Asp	Lys	Pro	Lys	Thr	Glu	Lys	His	Asn	Ala	His
1				5					10					15	
Gly	Ala	Gly	Asn	Gly	Leu	Arg	Tyr	Gly	Leu	Ser	Ser	Met	Gln	Gly	Trp
			20					25					30		
Arg	Val	Glu	Met	Glu	Asp	Ala	His	Thr	Ala	Val	Val	Gly	Ile	Pro	His
		35					40					45			
Gly	Leu	Glu	Asp	Trp	Ser	Phe	Phe	Ala	Val	Tyr	Asp	Gly	His	Ala	Gly
	50					55					60				
Ser	Arg	Val	Ala	Asn	Tyr	Cys	Ser	Thr	His	Leu	Leu	Glu	His	Ile	Thr
	65				70					75					80
Thr	Asn	Glu	Asp	Phe	Arg	Ala	Ala	Gly	Lys	Ser	Gly	Ser	Ala	Leu	Glu
				85					90					95	
Leu	Ser	Val	Glu	Asn	Val	Lys	Asn	Gly	Ile	Arg	Thr	Gly	Phe	Leu	Lys
			100					105					110		
Ile	Asp	Glu	Tyr	Met	Arg	Asn	Phe	Ser	Asp	Leu	Arg	Asn	Gly	Met	Asp
	115						120					125			
Arg	Ser	Gly	Ser	Thr	Ala	Val	Gly	Val	Met	Ile	Ser	Pro	Lys	His	Ile
	130					135					140				
Tyr	Phe	Ile	Asn	Cys	Gly	Asp	Ser	Arg	Ala	Val	Leu	Tyr	Arg	Asn	Gly
	145				150					155					160
Gln	Val	Cys	Phe	Ser	Thr	Gln	Asp	His	Lys	Pro	Cys	Asn	Pro	Arg	Glu
				165					170					175	
Lys	Glu	Arg	Ile	Gln	Asn	Ala	Gly	Gly	Ser	Val	Met	Ile	Gln	Arg	Val
			180					185					190		
Asn	Gly	Ser	Leu	Ala	Val	Ser	Arg	Ala	Leu	Gly	Asp	Tyr	Asp	Tyr	Lys
		195					200					205			
Cys	Val	Asp	Gly	Lys	Gly	Pro	Thr	Glu	Gln	Leu	Val	Ser	Pro	Glu	Pro
	210					215					220				
Glu	Val	Tyr	Xaa	Ile	Leu	Arg	Ala	Glu	Glu	Asp	Glu	Phe	Ile	Ile	Leu
	225				230					235					240
Ala	Cys	Asp	Gly	Ile	Trp	Asp	Val	Met	Ser	Asn	Glu	Glu	Leu	Cys	Glu
				245					250					255	
Tyr	Val	Lys	Ser	Arg	Leu	Glu	Val	Ser	Asp	Asp	Leu	Glu	Asn	Val	Cys
			260					265					270		
Asn	Trp	Val	Val	Asp	Thr	Cys	Leu	His	Lys	Gly	Ser	Arg	Asp	Asn	Met
		275					280					285			

Ser Ile Val Leu Val Cys Phe Ser Asn Ala Pro Lys Val Ser Asp Glu
290 295 300

Ala Val Lys Lys Asp Ser Glu Leu Asp Lys His Leu Glu Ser Arg Val
305 310 315 320

Glu Glu Ile Met Glu Lys Ser Gly Glu Glu Gly Met Pro Asp Leu Ala
325 330 335

His Val Met Arg Ile Leu Ser Ala Glu Asn Ile Pro Asn Leu Pro Pro
340 345 350

Gly Gly Gly Leu Ala Gly Xaa Arg Asn Val Ile Glu Ala Val Tyr Ser
355 360 365

Arg Leu Asn Pro His Arg Glu Ser Asp Gly Gly Ala Gly Asp Leu Glu
370 375 380

Asp Pro Trp
385

<210> 181

<211> 145

<212> PRT

<213> Homo sapiens

<400> 181

Met Ala Phe Phe Thr Gly Leu Trp Gly Pro Phe Thr Cys Val Ser Arg
1 5 10 15

Val Leu Ser His His Cys Phe Ser Thr Thr Gly Ser Leu Ser Ala Ile
20 25 30

Gln Lys Met Thr Arg Val Arg Val Val Asp Asn Ser Ala Leu Gly Asn
35 40 45

Ser Pro Tyr His Arg Ala Pro Arg Cys Ile His Val Tyr Lys Lys Asn
50 55 60

Gly Val Gly Lys Val Gly Asp Gln Ile Leu Leu Ala Ile Lys Gly Gln
65 70 75 80

Lys Lys Lys Ala Leu Ile Val Gly His Cys Met Pro Gly Pro Arg Met
85 90 95

Thr Pro Arg Phe Asp Ser Asn Asn Val Val Leu Ile Glu Asp Asn Gly
100 105 110

Asn Pro Val Gly Thr Arg Ile Lys Thr Pro Ile Pro Thr Ser Leu Arg
115 120 125

Lys Arg Glu Gly Glu Tyr Ser Lys Val Leu Ala Ile Ala Gln Asn Phe
130 135 140

Val
145

<210> 182

<211> 140

<212> PRT

<213> Homo sapiens

<220>
 <221> SITE
 <222> (129)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (132)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (134)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 182
 Met Phe Phe Ser Leu Pro Gly Leu Trp Gln Ile Ala Ser Phe Thr His
 1 5 10 15
 Asn Leu Ile Phe His Leu Trp Val Trp Gly Ser Glu Ser Gly Glu His
 20 25 30
 Leu Gln Ser His Asn Asp Pro Asp Thr Arg Gln Gly Gly His Ile Pro
 35 40 45
 Ile Arg Leu Leu Gly Glu Ser Ser Ala Ser Val Pro Gly Ser Ser Glu
 50 55 60
 Gly His Thr Gly Gly Pro Ala Pro Pro Arg Val Gly Gly Ser Ala Gly
 65 70 75 80
 Ile Ile Arg Thr His Val Val Phe Leu Val Ser Trp Pro Leu Leu Gln
 85 90 95
 Arg Glu Gln His Arg Leu Ser Trp Lys Leu Pro Ser Val Met Trp Gly
 100 105 110
 Asp Ser Arg Glu Pro His Leu Ala Arg Leu Asp Gln Ser Lys Trp Pro
 115 120 125
 Xaa Ala Thr Xaa Ala Xaa Gln Tyr Leu Gly Arg Gly
 130 135 140

<210> 183
 <211> 127
 <212> PRT
 <213> Homo sapiens

<400> 183
 Met Val Pro Gly Ala Ala Gly Trp Cys Cys Leu Val Leu Trp Leu Pro
 1 5 10 15
 Ala Cys Val Ala Ala His Gly Phe Arg Ile His Asp Tyr Leu Tyr Phe
 20 25 30
 Gln Val Leu Ser Pro Gly Asp Ile Arg Tyr Ile Phe Thr Ala Thr Pro
 35 40 45
 Ala Lys Asp Phe Gly Gly Ile Phe His Thr Arg Tyr Glu Gln Ile His
 50 55 60
 Leu Val Pro Ala Glu Pro Pro Glu Ala Cys Gly Glu Leu Ser Asn Gly
 65 70 75 80

Phe Phe Ile Gln Asp Gln Ile Ala Leu Val Glu Arg Gly Gly Cys Ser
 85 90 95
 Phe Leu Ser Lys Thr Arg Val Val Gln Glu His Gly Gly Arg Ala Val
 100 105 110
 Ile Ile Ser Asp Asn Ala Leu Thr Met Thr Ala Ser Thr Trp Arg
 115 120 125

<210> 184
 <211> 146
 <212> PRT
 <213> Homo sapiens

<400> 184
 Met Gln Gln Ser Arg Leu Leu Leu Pro Phe Leu Phe Phe Leu Leu Glu
 1 5 10 15
 Gly Cys Ala Pro Ser Ser Leu Gly Pro Gly Ala Ala Pro Gly Ser Gly
 20 25 30
 His Ser Leu Gly Pro Pro Gly Ser Pro Gly Ala Pro Gly Pro Gln Pro
 35 40 45
 Ala Val Gly Pro Ser Ser Pro Cys Gln Pro Gly Pro Ser Pro Ser Ser
 50 55 60
 Pro Ala Ala Ala Ala Ala Ser Ser Gln Ser Ser Val Ala Ser Trp Pro
 65 70 75 80
 Cys Thr Leu Arg Cys Ala Ala Pro Ser Pro Asp Ala Ser Ala Leu Arg
 85 90 95
 Pro Ala Ala Ser Pro Ala Ala Thr Pro Ala Trp Ser Pro Gly Ser Gly
 100 105 110
 Thr Ile Arg Val Leu Arg Pro Pro Ala Pro Ala Ala Ala Pro Ala Thr
 115 120 125
 Ala Ile Thr Asn Arg Gly Pro Pro Arg Arg Arg Arg Asn Ala Arg
 130 135 140
 Thr Ala
 145

<210> 185
 <211> 68
 <212> PRT
 <213> Homo sapiens

<400> 185
 Met Lys Pro Thr Arg Ser Leu Trp Ile Ser Phe Leu Met Cys Cys Trp
 1 5 10 15
 Ile Trp Phe Ala Asn Ile Leu Leu Arg Ile Phe Ala Ser Val Phe Phe
 20 25 30
 Arg Asp Ile Gly Leu Lys Phe Ser Phe Phe Cys Cys Val Ser Ala Arg
 35 40 45
 Leu Trp Tyr Gln Asp Asp Ala Gly Leu Ile Asn Glu Leu Gly Arg Ile

50

55

60

Pro Ser Phe Tyr
65

<210> 186

<211> 51

<212> PRT

<213> Homo sapiens

<400> 186

Met Thr Pro Val Phe Arg Ala Trp Gly Leu Trp Val Tyr Val Leu Pro
1 5 10 15

Thr Gly Phe Pro Gly Pro Cys Cys Met Met Leu Leu Glu Leu Phe Pro
20 25 30

Lys Glu Ser Val Pro Gln Ala Tyr Gln Gly Ile Leu Leu Tyr Leu His
35 40 45

Phe Gly Phe
50

<210> 187

<211> 85

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 187

Met Gly Met Pro Leu Val Thr Val Thr Ala Ala Thr Phe Pro Thr Leu
1 5 10 15

Ser Cys Pro Pro Arg Ala Trp Pro Glu Val Glu Ala Pro Glu Ala Pro
20 25 30

Ala Leu Pro Val Val Pro Glu Leu Pro Glu Val Pro Met Glu Met Pro
35 40 45

Leu Val Leu Pro Pro Glu Leu Glu Leu Leu Ser Leu Glu Ala Val His
50 55 60

Arg Tyr Gln Xaa Gly Gly Thr Leu Met Gly Trp Thr Arg Ala Glu Ala
65 70 75 80

Ser Ala Asn Gly Ser
85

<210> 188

<211> 191

<212> PRT

<213> Homo sapiens

<400> 188

Met Gly Asp His Leu Asp Leu Leu Leu Gly Val Val Leu Met Ala Gly
1 5 10 15

Pro Val Phe Gly Ile Pro Ser Cys Ser Phe Asp Gly Arg Ile Ala Phe
 20 25 30
 Tyr Arg Phe Cys Asn Leu Thr Gln Val Pro Gln Val Leu Asn Thr Thr
 35 40 45
 Glu Arg Leu Leu Leu Ser Phe Asn Tyr Ile Arg Thr Val Thr Ala Ser
 50 55 60
 Ser Phe Pro Phe Leu Glu Gln Leu Gln Leu Leu Glu Leu Gly Ser Gln
 65 70 75 80
 Tyr Thr Pro Leu Thr Ile Asp Lys Glu Ala Phe Arg Asn Leu Pro Asn
 85 90 95
 Leu Arg Ile Leu Asp Leu Gly Ser Ser Lys Ile Tyr Phe Leu His Pro
 100 105 110
 Asp Ala Phe Gln Gly Leu Phe His Leu Phe Glu Leu Arg Leu Tyr Phe
 115 120 125
 Cys Gly Leu Ser Asp Ala Val Leu Lys Asp Gly Tyr Phe Arg Asn Leu
 130 135 140
 Lys Ala Leu Thr Arg Leu Asp Leu Ser Lys Asn Gln Ile Arg Ser Leu
 145 150 155 160
 Tyr Leu His Pro Ser Phe Gly Lys Leu Asn Ser Leu Lys Ser Ile Asp
 165 170 175
 Phe Ser Ser Asn Gln Ile Phe Leu Val Cys Glu His Glu Leu Glu
 180 185 190

<210> 189

<211> 231

<212> PRT

<213> Homo sapiens

<400> 189

Met Trp Ala Leu Gln Leu Ser Leu Pro Thr Cys Gly Leu Ala Ala Leu
 1 5 10 15
 Leu Thr His Met Arg Pro Cys Ser Ser Pro Tyr Pro His Ala Gly Leu
 20 25 30
 Ala Ala Leu Leu Thr His Met Gly Pro Cys Arg Ser Pro Tyr Pro His
 35 40 45
 Gly Gly Leu Ala Ala Val Leu Thr His Met Arg Ala Leu Gln Leu Ser
 50 55 60
 Leu Pro Thr Trp Gly Leu Ala Ala Leu Leu Thr His Met Arg Pro Cys
 65 70 75 80
 Ser Ser Pro Tyr Pro His Ala Gly Leu Ala Cys Cys Trp Leu Trp Ser
 85 90 95
 Leu Ser Ser His Arg Ser Leu Gln Val Gln Ala Thr His Arg Leu Val
 100 105 110
 Val Arg Thr Ile Lys Asp Arg Val Met Leu Lys Val Leu Pro Gln Thr
 115 120 125

Arg Arg Arg Gly Pro Phe Leu Ser Ser Cys Arg Asn Asp Val Met Arg
 130 135 140
 Asn Cys Val Pro Arg His Ala Val Leu Val Thr Thr Cys Val Phe Val
 145 150 155 160
 Ser Phe Pro Thr His Cys Lys Val Gly Ile Thr Gly Pro Ile Thr Gln
 165 170 175
 Val Lys Gln Lys Pro Gly Asn His Ser Ser Pro Cys Pro Val Ile Gln
 180 185 190
 Leu Val Ala Lys Ala Glu Phe Glu Leu Met Leu Pro Ser Val Pro Lys
 195 200 205
 Pro Val Tyr Leu Thr Leu Val Leu Ser Cys Trp Cys Leu Cys Asp Val
 210 215 220
 Pro Cys Leu Ser Val Ser Leu
 225 230

<210> 190

<211> 68

<212> PRT

<213> Homo sapiens

<400> 190

Met Tyr Leu Glu Val Ala Val Arg Pro Phe Leu Ile Ile Val Ala Phe
 1 5 10 15
 Leu Gly Leu Ser Phe Leu Ala Leu Gln Met Pro Phe Trp Gln Gly Ser
 20 25 30
 Ala Val Gly His Leu Arg Ala Gly Gly Ala Gly Val Ala His Leu Ser
 35 40 45
 Gln Ala Gly Ile Ile Gln Ala Pro Val His Ser Gly Arg Glu Gly Gln
 50 55 60
 Pro Pro Pro Gly
 65

<210> 191

<211> 211

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (100)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (103)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 191

Met Gly Glu Ala Ser Pro Pro Ala Pro Ala Arg Arg His Leu Leu Val
 1 5 10 15
 Leu Leu Leu Leu Leu Ser Thr Leu Val Ile Pro Ser Ala Ala Ala Pro

20					25					30					
Ile	His	Asp	Ala	Asp	Ala	Gln	Glu	Ser	Ser	Leu	Gly	Leu	Thr	Gly	Leu
		35					40					45			
Gln	Ser	Leu	Leu	Gln	Gly	Phe	Ser	Arg	Leu	Phe	Leu	Lys	Gly	Asn	Leu
	50					55					60				
Leu	Arg	Gly	Ile	Asp	Ser	Leu	Phe	Ser	Ala	Pro	Met	Asp	Phe	Arg	Gly
65					70					75					80
Leu	Pro	Gly	Asn	Tyr	His	Lys	Glu	Glu	Asn	Gln	Glu	His	Gln	Leu	Gly
				85					90					95	
Asn	Asn	Thr	Xaa	Ser	Ser	Xaa	Leu	Gln	Ile	Asp	Lys	Val	Pro	Arg	Met
			100					105					110		
Glu	Glu	Lys	Glu	Ala	Leu	Val	Pro	Ile	Gln	Lys	Ala	Thr	Asp	Ser	Phe
		115					120					125			
His	Thr	Glu	Leu	His	Pro	Arg	Val	Ala	Phe	Trp	Ile	Ile	Lys	Leu	Pro
	130					135					140				
Arg	Arg	Arg	Ser	His	Gln	Asp	Ala	Leu	Glu	Gly	Gly	His	Trp	Leu	Ser
145					150					155					160
Glu	Lys	Arg	His	Arg	Leu	Gln	Ala	Ile	Arg	Asp	Gly	Leu	Arg	Lys	Gly
				165					170					175	
Thr	His	Lys	Asp	Val	Leu	Glu	Glu	Gly	Thr	Glu	Ser	Ser	Ser	His	Ser
			180					185					190		
Arg	Leu	Ser	Pro	Arg	Lys	Thr	His	Leu	Leu	Tyr	Ile	Leu	Arg	Pro	Ser
		195					200					205			
Arg	Gln	Leu													
		210													

<210> 192

<211> 90

<212> PRT

<213> Homo sapiens

<400> 192

Met	Leu	Val	Val	Ser	Thr	Val	Ile	Ile	Val	Phe	Trp	Glu	Phe	Ile	Asn
1				5					10					15	

Ser	Thr	Glu	Gly	Ser	Phe	Leu	Trp	Ile	Tyr	His	Ser	Lys	Asn	Pro	Glu
		20						25					30		

Val	Asp	Asp	Ser	Ser	Ala	Gln	Lys	Gly	Trp	Trp	Phe	Leu	Ser	Trp	Phe
		35					40					45			

Asn	Asn	Gly	Ile	His	Asn	Tyr	Gln	Gln	Gly	Glu	Glu	Asp	Ile	Asp	Lys
	50					55					60				

Glu	Lys	Gly	Arg	Glu	Glu	Thr	Lys	Gly	Arg	Lys	Met	Thr	Gln	Gln	Ser
65					70					75					80

Phe	Gly	Tyr	Gly	Thr	Gly	Leu	Ile	Gln	Thr
				85					90

<210> 193
 <211> 62
 <212> PRT
 <213> Homo sapiens

<400> 193
 Met Glu Leu Met Ala Leu Phe Phe Arg Thr Thr Thr Val Ala Ala Met
 1 5 10 15
 Ala Ser Arg Gly Ala Leu Ala Leu Phe Leu Arg Lys Ile Leu Ser Glu
 20 25 30
 Ala Lys Phe Lys Leu Ser Leu Thr Pro Gln Pro Pro Gln Pro Phe Tyr
 35 40 45
 Ile Tyr Met Ala Tyr Tyr Ser Glu Asn Phe Phe Leu Lys Phe
 50 55 60

<210> 194
 <211> 295
 <212> PRT
 <213> Homo sapiens

<400> 194
 Met Leu Cys Cys Trp Phe Pro Trp Arg Ile Leu Ala Ala Gly Gln Val
 1 5 10 15
 Pro Tyr Ser Pro His Ser Pro Gln Val Ala Gly Cys Asp Leu Thr Arg
 20 25 30
 Cys Glu Ser Gly Gly Ala Arg Ala Leu Ser Ile Gln Arg Ala Ala Leu
 35 40 45
 Val Val Leu Glu Asn Tyr Tyr Lys Asp Phe Thr Ile Tyr Asn Pro Asn
 50 55 60
 Leu Leu Thr Ala Ser Lys Phe Arg Ala Ala Lys His Met Ala Gly Leu
 65 70 75 80
 Lys Val Tyr Asn Val Asp Gly Pro Ser Asn Asn Ala Thr Gly Gln Ser
 85 90 95
 Arg Ala Met Ile Ala Ala Ala Ala Arg Arg Arg Asp Ser Ser His Asn
 100 105 110
 Glu Leu Tyr Tyr Glu Glu Ala Glu His Glu Arg Arg Val Lys Lys Arg
 115 120 125
 Lys Ala Arg Leu Val Val Ala Val Glu Glu Ala Phe Ile His Ile Gln
 130 135 140
 Arg Leu Gln Ala Glu Glu Gln Gln Lys Ala Pro Gly Glu Val Met Asp
 145 150 155 160
 Pro Arg Glu Ala Ala Gln Ala Ile Phe Pro Ser Met Ala Arg Ala Leu
 165 170 175
 Gln Lys Tyr Leu Arg Ile Thr Arg Gln Gln Asn Tyr His Ser Met Glu
 180 185 190
 Ser Ile Leu Gln His Leu Ala Phe Cys Ile Thr Asn Gly Met Thr Pro
 195 200 205
 Lys Ala Phe Leu Glu Arg Tyr Leu Ser Ala Gly Pro Thr Leu Gln Tyr

210					215					220					
Asp 225	Lys	Asp	Arg	Trp	Leu 230	Ser	Thr	Gln	Trp	Arg 235	Leu	Val	Ser	Asp	Glu 240
Ala	Val	Thr	Asn	Gly 245	Leu	Arg	Asp	Gly	Ile 250	Val	Phe	Val	Leu	Lys	Cys 255
Leu	Asp	Phe	Ser 260	Leu	Val	Val	Asn	Val 265	Lys	Lys	Ile	Pro	Phe 270	Ile	Ile
Leu	Ser	Glu 275	Glu	Phe	Ile	Asp	Pro 280	Lys	Ser	His	Lys	Phe 285	Val	Leu	Arg
Leu	Gln 290	Ser	Glu	Thr	Ser	Val 295									
<210> 195															
<211> 295															
<212> PRT															
<213> Homo sapiens															
<400> 195															
Met 1	Gly	Leu	Pro	Val 5	Ser	Trp	Ala	Pro	Pro 10	Ala	Leu	Trp	Val	Leu	Gly 15
Cys	Cys	Ala	Leu 20	Leu	Leu	Ser	Leu	Trp 25	Ala	Leu	Cys	Thr	Ala 30	Cys	Arg
Arg	Pro	Glu 35	Asp	Ala	Val	Ala	Pro 40	Arg	Lys	Arg	Ala	Arg 45	Arg	Gln	Arg
Ala 50	Arg	Leu	Gln	Gly	Ser	Ala 55	Thr	Ala	Ala	Glu	Ala 60	Ser	Leu	Leu	Arg
Arg 65	Thr	His	Leu	Cys	Ser 70	Leu	Ser	Lys	Ser	Asp 75	Thr	Arg	Leu	His	Glu 80
Leu	His	Arg	Gly 85	Pro	Arg	Ser	Ser	Arg	Ala 90	Leu	Arg	Pro	Ala	Ser	Met 95
Asp	Leu	Leu	Arg 100	Pro	His	Trp	Leu	Glu 105	Val	Ser	Arg	Asp	Ile 110	Thr	Gly
Pro	Gln	Ala 115	Ala	Pro	Ser	Ala	Phe 120	Pro	His	Gln	Glu	Leu 125	Pro	Arg	Ala
Leu 130	Pro	Ala	Ala	Ala	Ala	Thr	Ala 135	Gly	Cys	Ala	Gly 140	Leu	Glu	Ala	Thr
Tyr 145	Ser	Asn	Val	Gly	Leu 150	Ala	Ala	Leu	Pro	Gly 155	Val	Ser	Leu	Ala	Ala 160
Ser	Pro	Val	Val	Ala 165	Glu	Tyr	Ala	Arg	Val 170	Gln	Lys	Arg	Lys	Gly 175	Thr
His	Arg	Ser	Pro 180	Gln	Glu	Pro	Gln	Gln 185	Gly	Lys	Thr	Glu	Val 190	Thr	Pro
Ala	Ala	Gln 195	Val	Asp	Val	Leu	Tyr 200	Ser	Arg	Val	Cys	Lys 205	Pro	Lys	Arg
Arg	Asp 210	Pro	Gly	Pro	Thr	Thr 215	Asp	Pro	Leu	Asp	Pro 220	Lys	Gly	Gln	Gly

Ala Ile Leu Ala Leu Ala Gly Asp Leu Ala Tyr Gln Thr Leu Pro Leu
 225 230 235 240
 Arg Ala Leu Asp Val Asp Ser Gly Pro Leu Glu Asn Val Tyr Glu Ser
 245 250 255
 Ile Arg Glu Leu Gly Asp Pro Ala Gly Arg Ser Ser Thr Cys Gly Ala
 260 265 270
 Gly Thr Pro Pro Ala Ser Ser Cys Pro Ser Leu Gly Arg Gly Trp Arg
 275 280 285
 Pro Leu Pro Ala Ser Leu Pro
 290 295

<210> 196
 <211> 338
 <212> PRT
 <213> Homo sapiens

<400> 196
 Met Met Arg Thr Cys Val Leu Leu Ser Ala Val Leu Trp Cys Leu Thr
 1 5 10 15
 Gly Val Gln Cys Pro Arg Phe Thr Leu Phe Asn Lys Lys Gly Phe Ile
 20 25 30
 Tyr Gly Lys Thr Gly Gln Pro Asp Lys Ile Tyr Val Glu Leu His Gln
 35 40 45
 Asn Ser Pro Val Leu Ile Cys Met Asp Phe Lys Leu Ser Lys Lys Glu
 50 55 60
 Ile Val Asp Pro Thr Tyr Leu Trp Ile Gly Pro Asn Glu Lys Thr Leu
 65 70 75 80
 Thr Gly Asn Asn Arg Ile Asn Ile Thr Glu Thr Gly Gln Leu Met Val
 85 90 95
 Lys Asp Phe Leu Glu Pro Leu Ser Gly Leu Tyr Thr Cys Thr Leu Ser
 100 105 110
 Tyr Lys Thr Val Lys Ala Glu Thr Gln Glu Glu Lys Thr Val Lys Lys
 115 120 125
 Arg Tyr Asp Phe Met Val Phe Ala Tyr Arg Glu Pro Asp Tyr Ser Tyr
 130 135 140
 Gln Met Ala Val Arg Phe Thr Thr Arg Ser Cys Ile Gly Arg Tyr Asn
 145 150 155 160
 Asp Val Phe Phe Arg Val Leu Lys Lys Ile Leu Asp Ile Leu Ile Ser
 165 170 175
 Asp Leu Ser Cys His Val Ile Glu Pro Ser Tyr Lys Cys His Ser Val
 180 185 190
 Glu Ile Pro Glu His Gly Leu Ile His Glu Leu Phe Ile Ala Phe Gln
 195 200 205
 Val Asn Pro Phe Ala Pro Gly Trp Lys Gly Ala Cys Asn Gly Ser Val
 210 215 220

Asp Cys Glu Asp Thr Thr Asn His Asn Ile Leu Gln Ala Arg Asp Arg
 225 230 235 240
 Ile Glu Asp Phe Phe Arg Ser Gln Ala Tyr Ile Phe Tyr His Asn Phe
 245 250 255
 Asn Lys Thr Leu Pro Ala Met His Phe Val Asp His Ser Leu Gln Val
 260 265 270
 Val Arg Leu Asp Ser Cys Arg Pro Gly Phe Gly Lys Asn Glu Arg Leu
 275 280 285
 His Ser Asn Cys Ala Ser Cys Cys Val Val Cys Ser Pro Ala Thr Phe
 290 295 300
 Ser Pro Asp Val Asn Val Thr Cys Gln Thr Cys Val Ser Val Leu Thr
 305 310 315 320
 Tyr Gly Ala Lys Ser Cys Pro Gln Thr Ser Asn Lys Asn Gln Gln Tyr
 325 330 335
 Glu Asp

<210> 197
 <211> 78
 <212> PRT
 <213> Homo sapiens

<400> 197
 Met Gln Gln Arg Gly Ala Ala Gly Ser Arg Gly Cys Ala Leu Phe Pro
 1 5 10 15
 Leu Leu Gly Val Leu Phe Phe Gln Val Ser Ala Pro Ala Gly Tyr Ala
 20 25 30
 Pro Leu Pro Ala Gly Gly Leu Gly Lys Met Val Ala Phe Pro Val Pro
 35 40 45
 Gly Arg Gly Val Ser Arg Lys Pro Pro His Ser Ser Gly Lys Glu Gly
 50 55 60
 Gly Arg Glu Arg Asp Val Gly Thr Met Ser Ser Pro Pro Arg
 65 70 75

<210> 198
 <211> 181
 <212> PRT
 <213> Homo sapiens

<400> 198
 Met Met Leu Met Pro Tyr Gly Ala Leu Ile Ile Gly Phe Val Cys Gly
 1 5 10 15
 Ile Ile Ser Thr Leu Gly Phe Val Tyr Leu Thr Pro Phe Leu Glu Ser
 20 25 30
 Arg Leu His Ile Gln Asp Thr Cys Gly Ile Asn Asn Leu His Gly Ile
 35 40 45
 Pro Gly Ile Ile Gly Gly Ile Val Gly Ala Val Thr Ala Ala Ser Ala
 50 55 60

Ser Leu Glu Val Tyr Gly Lys Glu Gly Leu Val His Ser Phe Asp Phe
 65 70 75 80
 Gln Gly Phe Asn Gly Asp Trp Thr Ala Arg Thr Gln Gly Lys Phe Gln
 85 90 95
 Ile Tyr Gly Leu Leu Val Thr Leu Ala Met Ala Leu Met Gly Gly Ile
 100 105 110
 Ile Val Gly Leu Ile Leu Arg Leu Pro Phe Trp Gly Gln Pro Ser Asp
 115 120 125
 Glu Asn Cys Phe Glu Asp Ala Val Tyr Trp Glu Met Pro Glu Gly Asn
 130 135 140
 Ser Thr Val Tyr Ile Pro Glu Asp Pro Thr Phe Lys Pro Ser Gly Pro
 145 150 155 160
 Ser Val Pro Ser Val Pro Met Val Ser Pro Leu Pro Met Ala Ser Ser
 165 170 175
 Val Pro Leu Val Pro
 180

<210> 199
 <211> 79
 <212> PRT
 <213> Homo sapiens

<400> 199
 Met Leu Ser Leu Asp Phe Leu Asp Asp Val Arg Arg Met Asn Lys Arg
 1 5 10 15
 Gln Val Ser Leu Ser Val Leu Phe Phe Ser Trp Leu Phe Leu Ser Leu
 20 25 30
 Arg Gly Cys Cys Cys Gly Ala Arg Arg Thr Pro Gly Phe Trp Cys Glu
 35 40 45
 Gly Leu Ser Trp Ser Asp Thr Arg Val Ile Arg Phe Leu Trp Arg Leu
 50 55 60
 Trp Pro Glu Ala Ala Leu Ser Ala Ser Leu Phe Leu Thr Pro Asn
 65 70 75

<210> 200
 <211> 69
 <212> PRT
 <213> Homo sapiens

<400> 200
 Met Glu Pro Arg Ser Phe Leu Leu Pro Glu Leu Gly Gly Arg Val Ser
 1 5 10 15
 His Ile Pro Leu Gly Leu Thr Leu Val Phe Ala Cys Phe Leu Met Val
 20 25 30
 Arg Glu Thr Ala Gly Gly Phe Ser Phe Arg Ala Gly Asp Leu Glu Glu
 35 40 45
 Ile Ser Arg Lys Arg Thr Asn Val Leu Gly Ser Leu Arg Gly Thr Glu

50
Leu Ile Gly Tyr Ile
65

55

60

<210> 201
<211> 271
<212> PRT
<213> Homo sapiens

<400> 201
Met Thr Gln Gly Lys Leu Ser Val Ala Asn Lys Ala Pro Gly Thr Glu
1 5 10 15
Gly Gln Gln Gln Val His Gly Glu Lys Lys Glu Ala Pro Ala Val Pro
20 25 30
Ser Ala Pro Pro Ser Tyr Glu Glu Ala Thr Ser Gly Glu Gly Met Lys
35 40 45
Ala Gly Ala Phe Pro Pro Ala Pro Thr Ala Val Pro Leu His Pro Ser
50 55 60
Trp Ala Tyr Val Asp Pro Ser Ser Ser Ser Ser Tyr Asp Asn Gly Phe
65 70 75 80
Pro Thr Gly Asp His Glu Leu Phe Thr Thr Phe Ser Trp Asp Asp Gln
85 90 95
Lys Val Arg Arg Val Phe Val Arg Lys Val Tyr Thr Ile Leu Leu Ile
100 105 110
Gln Leu Leu Val Thr Leu Ala Val Val Ala Leu Phe Thr Phe Cys Asp
115 120 125
Pro Val Lys Asp Tyr Val Gln Ala Asn Pro Gly Trp Tyr Trp Ala Ser
130 135 140
Tyr Ala Val Phe Phe Ala Thr Tyr Leu Thr Leu Ala Cys Cys Ser Gly
145 150 155 160
Pro Arg Arg His Phe Pro Trp Glu Pro Asp Ser Pro Asp Arg Leu Tyr
165 170 175
Pro Val His Gly Leu Pro His Trp Asp Ala Val Gln Leu Leu Gln His
180 185 190
His Leu Arg Ala Ala Val Pro Gly His His Gly Pro Cys Leu Pro Leu
195 200 205
Ser His Arg Leu Gln Leu Pro Asp Gln Val Arg Leu His Leu Leu Pro
210 215 220
Gly Arg Ala Leu Arg Ala Ser His Asp Ser Phe Leu Gln Arg Thr His
225 230 235 240
Pro Gly His Pro Pro Thr Leu Pro Ile Cys Ala Leu Ala Pro Cys Ser
245 250 255
Leu Cys Ser Thr Gly Ser Gly Cys Ile Tyr Ile Val Pro Gly Thr
260 265 270

<210> 202
 <211> 51
 <212> PRT
 <213> Homo sapiens

<400> 202
 Met Lys Cys Thr Ala Val Phe Ala Pro Ser Ala Trp Pro Asn Thr Leu
 1 5 10 15
 Ser Leu Leu Val Ser Leu His Thr Val Met Cys Ile Asn Trp His Leu
 20 25 30
 Val Ser Ala Ser His Met His Ile Gly Arg Ile Val Ile Leu Glu Gly
 35 40 45
 Asp Gly Met
 50

<210> 203
 <211> 71
 <212> PRT
 <213> Homo sapiens

<400> 203
 Met Pro Asn Thr Phe His Thr Tyr Arg Pro Ile Leu Leu Leu Leu Leu
 1 5 10 15
 Leu Pro Ser Ser Ser His Gln Asn Met Ile Val Ser Leu Pro Gln Asn
 20 25 30
 Met Tyr Phe Leu Ile Ala Val Ala Lys Arg Leu Cys Ala Glu Ser Leu
 35 40 45
 Ala Ser Asp Pro Ala Pro Cys Asn Leu Ser Ala Leu Gln Ala Lys Pro
 50 55 60
 Arg Pro Arg Leu Arg His Tyr
 65 70

<210> 204
 <211> 60
 <212> PRT
 <213> Homo sapiens

<400> 204
 Met Leu Tyr Trp Gly Asn Val Ala Leu Val Leu Pro Thr Pro Tyr Leu
 1 5 10 15
 His Leu Ser Leu Thr Leu Leu Leu Ser Pro Glu Trp Leu Gly Glu Met
 20 25 30
 Gly Arg Gly Leu Pro Trp Pro Gly His Leu Val Ala Ala Trp Leu Asp
 35 40 45
 His Ile Ala Asn Glu Leu Gly Arg Gly Ala Ile Phe
 50 55 60

<210> 205
 <211> 143
 <212> PRT

<213> Homo sapiens

<400> 205

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Met Lys Trp Glu Arg Gly Ser Pro Met Val Leu Leu Ala Leu Val Tyr
 1          5          10          15

Asp Val Cys Cys Ala Ser Arg Arg Gly Gly Gln Ser His Pro Thr Ser
          20          25          30

Gly Ser Asp Val Leu Pro Leu Pro Val Pro Ala Leu Ala Gln Pro Ala
          35          40          45

Gln Pro Ser Arg Leu Asp Ala Cys Ala Lys Ala Arg Gly Ser Gln Arg
          50          55          60

Ala Ala Gly Trp Pro Arg Ala Gly Ser Arg Leu Gly Pro Ala Val Gly
 65          70          75          80

Arg Ala Ala Ser Pro Ser Ser Leu Gln Thr His Gly Ser Ser Ser Gln
          85          90          95

Ser Ser Arg Gln Leu Pro Gly Pro Glu Met Ser Ser Ser Pro Pro Trp
          100          105          110

Gly Gln Ala Leu Pro Trp Pro Ser Ser Val Asn Pro Ser Phe Leu Cys
          115          120          125

Ala Val Ser Gly Leu Leu Thr Val Val Cys Val Cys Ala Arg Leu
          130          135          140

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<210> 206

<211> 148

<212> PRT

<213> Homo sapiens

<400> 206

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Met Gln Phe Ile Leu Thr Gly Ile Thr Leu Ser Gly Tyr Leu Phe Thr
 1          5          10          15

Phe Ser Ala Cys Ala Val Leu Ser Ala Ser Ile Thr Val Trp Gly Leu
          20          25          30

Met Glu Cys Leu Ile His Arg His Gly Ser His Thr Thr Glu His Leu
          35          40          45

Thr Arg Thr Leu Thr Ser Gln Gln Ser Ser Arg Gly His Leu Ser Leu
          50          55          60

Ser His Ser Thr Thr Gln Ser Asn Gln Pro Glu Arg Thr Leu Ala Leu
 65          70          75          80

Leu Thr Gly Gly Thr Ala Asp Leu Ser Val Trp Arg Gln His Ser Pro
          85          90          95

Lys Met Gly Ala Ile Phe Gln Asp Ala Val Phe Ala Leu Asp Ser Gln
          100          105          110

Ala Tyr Leu Trp Gly Ile Val Ser Asn Arg Glu Asn Ile Trp Val Leu
          115          120          125

Glu Gln Trp Pro Pro Pro Lys Gly Phe His Ser Cys Gln Glu Thr Pro
          130          135          140

Gln Glu Ser His

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145

<210> 207

<211> 36

<212> PRT

<213> Homo sapiens

<400> 207

Met	Trp	Thr	Cys	Pro	Gly	Ile	Ala	Ala	Leu	Val	Leu	Met	Ile	Val	Pro
1				5					10					15	

Gly	Cys	Ser	Leu	Cys	Pro	Ala	Gln	Val	Val	His	His	Val	Gly	Gln	Arg
			20					25					30		

Glu	Ser	Pro	Ser
			35

<210> 208

<211> 406

<212> PRT

<213> Homo sapiens

<400> 208

Met	Ser	Gly	Ala	Pro	Thr	Ala	Gly	Ala	Ala	Leu	Met	Leu	Cys	Ala	Ala
1				5					10					15	

Thr	Ala	Val	Leu	Leu	Ser	Ala	Gln	Gly	Gly	Pro	Val	Gln	Ser	Lys	Ser
			20					25					30		

Pro	Arg	Phe	Ala	Ser	Trp	Asp	Glu	Met	Asn	Val	Leu	Ala	His	Gly	Leu
		35					40					45			

Leu	Gln	Leu	Gly	Gln	Gly	Leu	Arg	Glu	His	Ala	Glu	Arg	Thr	Arg	Ser
	50					55					60				

Gln	Leu	Ser	Ala	Leu	Glu	Arg	Arg	Leu	Ser	Ala	Cys	Gly	Ser	Ala	Cys
	65				70					75					80

Gln	Gly	Thr	Glu	Gly	Ser	Thr	Asp	Leu	Pro	Leu	Ala	Pro	Glu	Ser	Arg
				85					90					95	

Val	Asp	Pro	Glu	Val	Leu	His	Ser	Leu	Gln	Thr	Gln	Leu	Lys	Ala	Gln
			100					105					110		

Asn	Ser	Arg	Ile	Gln	Gln	Leu	Phe	His	Lys	Val	Ala	Gln	Gln	Gln	Arg
		115					120					125			

His	Leu	Glu	Lys	Gln	His	Leu	Arg	Ile	Gln	His	Leu	Gln	Ser	Gln	Phe
	130					135					140				

Gly	Leu	Leu	Asp	His	Lys	His	Leu	Asp	His	Glu	Val	Ala	Lys	Pro	Ala
	145				150					155					160

Arg	Arg	Lys	Arg	Leu	Pro	Glu	Met	Ala	Gln	Pro	Val	Asp	Pro	Ala	His
				165					170					175	

Asn	Val	Ser	Arg	Leu	His	Arg	Leu	Pro	Arg	Asp	Cys	Gln	Glu	Leu	Phe
			180					185					190		

Gln	Val	Gly	Glu	Arg	Gln	Ser	Gly	Leu	Phe	Glu	Ile	Gln	Pro	Gln	Gly
		195					200					205			

Ser Pro Pro Phe Leu Val Asn Cys Lys Met Thr Ser Asp Gly Gly Trp
 210 215 220
 Thr Val Ile Gln Arg Arg His Asp Gly Ser Val Asp Phe Asn Arg Pro
 225 230 235 240
 Trp Glu Ala Tyr Lys Ala Gly Phe Gly Asp Pro His Gly Glu Phe Trp
 245 250 255
 Leu Gly Leu Glu Lys Val His Ser Ile Thr Gly Asp Arg Asn Ser Arg
 260 265 270
 Leu Ala Val Gln Leu Arg Asp Trp Asp Gly Asn Ala Glu Leu Leu Gln
 275 280 285
 Phe Ser Val His Leu Gly Gly Glu Asp Thr Ala Tyr Ser Leu Gln Leu
 290 295 300
 Thr Ala Pro Val Ala Gly Gln Leu Gly Ala Thr Thr Val Pro Pro Ser
 305 310 315 320
 Gly Leu Ser Val Pro Phe Ser Thr Trp Asp Gln Asp His Asp Leu Arg
 325 330 335
 Arg Asp Lys Asn Cys Ala Lys Ser Leu Ser Gly Gly Trp Trp Phe Gly
 340 345 350
 Thr Cys Ser His Ser Asn Leu Asn Gly Gln Tyr Phe Arg Ser Ile Pro
 355 360 365
 Gln Gln Arg Gln Lys Leu Lys Lys Gly Ile Phe Trp Lys Thr Trp Arg
 370 375 380
 Gly Arg Tyr Tyr Pro Leu Gln Ala Thr Thr Met Leu Ile Gln Pro Met
 385 390 395 400
 Ala Ala Glu Ala Ala Ser
 405

<210> 209

<211> 91

<212> PRT

<213> Homo sapiens

<400> 209

Met Glu Lys Thr Leu Phe Leu Tyr His Tyr Leu Pro Ala Leu Thr Phe
 1 5 10 15
 Gln Ile Leu Leu Leu Pro Val Val Leu Gln His Ile Ser Asp His Leu
 20 25 30
 Cys Arg Ser Gln Leu Gln Arg Ser Ile Phe Ser Ala Leu Val Val Ala
 35 40 45
 Trp Tyr Ser Ser Ala Cys His Val Ser Asn Thr Leu Arg Pro Leu Thr
 50 55 60
 Tyr Gly Asp Lys Ser Leu Ser Pro His Glu Leu Lys Ala Leu Arg Trp
 65 70 75 80
 Lys Asp Ser Trp Asp Ile Leu Ile Arg Lys His
 85 90

<210> 210
 <211> 101
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (23)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (29)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 210
 Met Leu Leu Phe Gly Leu Cys Trp Gly Pro Tyr Val Ala Thr Leu Leu
 1 5 10 15
 Leu Ser Val Leu Ala Tyr Xaa Gln Arg Pro Pro Leu Xaa Pro Gly Thr
 20 25 30
 Leu Leu Ser Leu Leu Ser Leu Gly Ser Ala Ser Ala Ala Val Pro
 35 40 45
 Val Ala Met Gly Leu Gly Asp Gln Arg Tyr Thr Ala Pro Trp Arg Ala
 50 55 60
 Ala Ala Gln Arg Cys Leu Gln Gly Leu Trp Gly Arg Ala Ser Arg Asp
 65 70 75 80
 Ser Pro Gly Pro Ser Ile Ala Tyr His Pro Ser Ser Gln Ser Ser Val
 85 90 95
 Asp Leu Asp Leu Asn
 100

<210> 211
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 211
 Met Ser Ala Gly Lys Trp Leu Leu Leu Val Ile Phe Arg Asp Leu Gly
 1 5 10 15
 Cys Gly Val Ser Arg Thr Ser Pro His Leu Arg Ser Gly Glu Glu Gly
 20 25 30
 Arg Ile Trp Ser Leu Leu Thr Ala Cys Ser Cys Cys Cys Leu Phe Val
 35 40 45
 Ile Phe
 50

<210> 212
 <211> 161
 <212> PRT
 <213> Homo sapiens

<400> 212

Met Thr Ser Ala Leu Arg Gly Val Ala Asp Asp Gln Gly Gln His Pro
 1 5 10 15
 Leu Leu Lys Met Leu Leu His Leu Leu Ala Phe Ser Ser Ala Ala Thr
 20 25 30
 Gly His Leu Gln Ala Ser Val Leu Thr Gln Cys Leu Lys Val Leu Val
 35 40 45
 Lys Leu Ala Glu Asn Thr Ser Cys Asp Phe Leu Pro Arg Phe Gln Cys
 50 55 60
 Val Phe Gln Val Leu Pro Lys Cys Leu Ser Pro Glu Thr Pro Leu Pro
 65 70 75 80
 Ser Val Leu Leu Ala Val Glu Leu Leu Ser Leu Leu Ala Asp His Asp
 85 90 95
 Gln Leu Ala Pro Gln Leu Cys Ser His Ser Glu Gly Cys Leu Leu Leu
 100 105 110
 Leu Leu Tyr Met Tyr Ile Thr Ser Arg Pro Asp Arg Val Ala Leu Glu
 115 120 125
 Thr Gln Trp Leu Gln Leu Glu Gln Glu Val Val Trp Leu Leu Ala Lys
 130 135 140
 Leu Gly Val Gln Glu Pro Leu Ala Pro Ser His Trp Leu Gln Leu Pro
 145 150 155 160
 Val

<210> 213
 <211> 227
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (67)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (170)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 213
 Met Leu Gly Leu Leu Leu Cys Thr Pro Arg Ala Trp Leu Thr Leu
 1 5 10 15
 Ser Gly Pro Val Cys Phe Gln Gly Arg Gly Pro Ser Glu Val Pro Gln
 20 25 30
 Arg Pro Pro Gln Leu Trp Val Val Ser Ile Ser Val Leu Gln Gly Gln
 35 40 45
 His Arg Gly Arg Ala Gly Pro Arg Asp Glu Gln Glu Arg Gly Arg Asp
 50 55 60
 Gln His Xaa Leu Pro Ala His Gly Arg Leu His Leu Ser Pro Arg Pro
 65 70 75 80

Glu Pro Gly Cys Arg 85 Pro Ala Cys Ala Ala 90 Pro Gly Gly Gln Pro Gly
 Val Val Ser Gly Leu Pro Ala Leu Gly Gln Pro Arg Glu Ala Ser Ala 110
 Pro Cys His Ile Ser Arg Leu Arg 120 Thr Ala Ser Leu Ala Val Val Met 125
 Gly Ala Glu Lys Gly Gly Ala 135 Glu Met Arg Pro Trp Pro Ala Val Gln 140
 Ala Pro Ala Pro Leu Pro Ser Val Gly Gly Thr Pro Ile Cys Ala Pro 160
 Gly Cys Gly Ser Lys 165 Asp Thr Val Pro Xaa Leu Gln Pro Ser Val Pro 175
 Lys Gly Arg Ala Glu Ser Gly Phe Val Ser Ala Arg Phe Leu Cys Pro 190
 His Pro Pro Arg Ser Leu Leu Cys 200 Leu Gly Pro Gly Pro Ser Leu Ser 205
 Gly Leu Pro Gly Pro Pro Ile 215 Pro Ala Leu Leu Gln Gly Pro Leu Gly 220
 Leu Gly Cys 225

<210> 214
 <211> 351
 <212> PRT
 <213> Homo sapiens

<400> 214
 Met Leu Thr Leu Arg 5 Ser Leu Leu Phe Trp 10 Ser Leu Val Tyr Cys Tyr 15
 Cys Gly Leu Cys 20 Ala Ser Ile His Leu 25 Leu Lys Leu Leu Trp 30 Ser Leu
 Gly Lys Gly 35 Pro Ala Gln Thr Phe Arg Arg Pro Ala Arg Glu His Pro 45
 Pro Ala Cys Leu Ser Asp 55 Ser Leu Gly Thr His 60 Cys Tyr Val Arg
 Ile 65 Lys Asp Ser Gly Leu 70 Arg Phe His Tyr Val 75 Ala Ala Gly Glu Arg 80
 Gly Lys Pro Leu Met 85 Leu Leu Leu His Gly 90 Phe Pro Glu Phe Trp Tyr 95
 Ser Trp Arg Tyr 100 Gln Leu Arg Glu Phe 105 Lys Ser Glu Tyr Arg Val Val 110
 Ala Leu Asp 115 Leu Arg Gly Tyr Gly 120 Glu Thr Asp Ala Pro Ile His Arg 125
 Gln Asn Tyr Lys Leu Asp 135 Cys Leu Ile Thr Asp Ile 140 Lys Asp Ile Leu
 Asp Ser Leu Gly Tyr Ser Lys Cys Val Leu Ile Gly His Asp Trp Gly

145		150		155		160
Gly Met Ile Ala Trp	Leu Ile Ala Ile Cys Tyr Pro Glu Met Val Met					
	165			170		175
Lys Leu Ile Val Ile Asn Phe Pro His Pro Asn Val Phe Thr Glu Tyr						
	180		185			190
Ile Leu Arg His Pro Ala Gln Leu Leu Lys Ser Ser Tyr Tyr Tyr Phe						
	195		200			205
Phe Gln Ile Pro Trp Phe Pro Glu Phe Met Phe Ser Ile Asn Asp Phe						
	210		215		220	
Lys Val Leu Lys His Leu Phe Thr Ser His Ser Thr Gly Ile Gly Arg						
	225		230		235	240
Lys Gly Cys Gln Leu Thr Thr Glu Asp Leu Glu Ala Tyr Ile Tyr Val						
		245		250		255
Phe Ser Gln Pro Gly Ala Leu Ser Gly Pro Ile Asn His Tyr Arg Asn						
	260		265			270
Ile Phe Ser Cys Leu Pro Leu Lys His His Met Val Thr Thr Pro Thr						
	275		280			285
Leu Leu Leu Trp Gly Glu Asn Asp Ala Phe Met Glu Val Glu Met Ala						
	290		295		300	
Glu Val Thr Lys Ile Tyr Val Lys Asn Tyr Phe Arg Leu Thr Ile Leu						
	305		310		315	320
Ser Glu Ala Ser His Trp Leu Gln Gln Asp Gln Pro Asp Ile Val Asn						
	325		330			335
Lys Leu Ile Trp Thr Phe Leu Lys Glu Glu Thr Arg Lys Lys Asp						
	340		345			350

<210> 215

<211> 93

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (84)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 215

Met Gly His Leu Pro His Ile Leu Ser Leu Gly Leu Phe Leu Thr Leu
1 5 10 15

Leu Met Phe Cys Ile Thr Lys Ser Asp Gly Gln Asn Lys Ile Tyr Arg
20 25 30

Cys Phe Lys Lys Ala Ser Pro Gln Val Ile Val Thr His Thr Lys Met
 35 40 45
 Arg Ile Ala Ala Ile Ile Cys Ser Tyr Trp Xaa Gly Xaa Ala Asn Leu
 50 55 60
 Gly Thr Arg Ile Lys Leu Gln Leu Asn Ser Ala Val Tyr Lys Ile Phe
 65 70 75 80
 Val Ser Leu Xaa Arg Lys Arg Lys Arg Thr Leu Ser Trp
 85 90

<210> 216
 <211> 101
 <212> PRT
 <213> Homo sapiens

<400> 216
 Met Phe Gln Gln Gly Trp Ser Ser Pro Leu Leu Thr Pro Ala Phe Thr
 1 5 10 15
 Ile Leu Pro Met Ser Ser Leu Leu Thr Ser Leu His Pro Ala Pro Arg
 20 25 30
 Leu Pro Thr Leu Leu Ala Ala Ser Ser Pro Gln Leu Ala Pro Leu Thr
 35 40 45
 Cys Cys Phe Gln Tyr Pro Phe Leu Leu Ser Ala Ser Ser Leu Gly Asp
 50 55 60
 Ile His Pro Ser Ser Arg Asp Phe Ser Cys His Ile Asn Ser Asn Val
 65 70 75 80
 Ser Glu Leu Tyr Phe Leu Pro Pro Thr Ser Val Ser Leu Asn Val Arg
 85 90 95
 Ile Phe Tyr Phe Gln
 100

<210> 217
 <211> 98
 <212> PRT
 <213> Homo sapiens

<400> 217
 Met Gly Trp Leu Gly Arg Thr Cys Leu Ala His Ser His Leu Asp Phe
 1 5 10 15
 Ile Ser Gly Ala Leu Leu Leu Thr Phe Ala Tyr Phe Leu Val Phe Gln
 20 25 30
 Val Cys Pro Val Ile Asn Lys Trp Leu Tyr Asn Leu Asp Gln His Val
 35 40 45
 Val Lys Glu Leu Ile Ser Lys Cys Trp Arg Trp Glu Gly Thr Gly Thr
 50 55 60
 Leu Gln Lys Lys Ala Gln Asn Pro Pro Ser Pro Phe Val Phe His Phe
 65 70 75 80
 Pro Leu Pro His Ser Gly Thr Ser Pro Arg Pro Lys Ile Ser Phe Leu

123

85

90

95

Leu Lys

<210> 218
<211> 81
<212> PRT
<213> Homo sapiens

<400> 218
Met Trp Gly Gly Ser Val Phe Leu Lys Pro Lys Leu Leu Gln Ala Gly
1 5 10 15
Gly Phe Leu His Phe Leu Phe Val Leu Phe Leu Thr Ala Asp Ser Val
20 25 30
His Leu Ser Val Gly Gly Glu Leu Leu Arg Thr Gly Phe Lys Arg
35 40 45
His Ile Pro Val Thr Phe Lys Asn Leu His Gly Gly Arg Ser Phe Ser
50 55 60
Arg Ser Val Gly Trp Ser Thr Leu Gly Pro Thr Thr Leu Arg Arg Gly
65 70 75 80
Arg

<210> 219
<211> 188
<212> PRT
<213> Homo sapiens

<400> 219
Met Phe His Gln Ile Trp Ala Ala Leu Leu Tyr Phe Tyr Gly Ile Ile
1 5 10 15
Leu Asn Ser Ile Tyr Gln Cys Pro Glu His Ser Gln Leu Thr Thr Leu
20 25 30
Gly Val Asp Gly Lys Glu Phe Pro Glu Val His Leu Gly Gln Trp Tyr
35 40 45
Phe Ile Ala Gly Ala Ala Pro Thr Lys Glu Glu Leu Ala Thr Phe Asp
50 55 60
Pro Val Asp Asn Ile Val Phe Asn Met Ala Ala Gly Ser Ala Pro Met
65 70 75 80
Gln Leu His Leu Arg Ala Thr Ile Arg Met Lys Asp Gly Leu Cys Val
85 90 95
Pro Arg Lys Trp Ile Tyr His Leu Thr Glu Gly Ser Thr Asp Leu Arg
100 105 110
Thr Glu Gly Arg Pro Asp Met Lys Thr Glu Leu Phe Ser Ser Ser Cys
115 120 125
Pro Gly Gly Ile Met Leu Asn Glu Thr Gly Gln Gly Tyr Gln Arg Phe
130 135 140

Leu Leu Tyr Asn Arg Ser Pro His Pro Pro Glu Lys Cys Val Glu Glu
145 150 155 160

Phe Lys Ser Leu Thr Ser Cys Leu Asp Ser Lys Ala Phe Leu Leu Thr
165 170 175

Pro Arg Asn Gln Glu Ala Cys Glu Leu Ser Asn Asn
180 185

<210> 220

<211> 44

<212> PRT

<213> Homo sapiens

<400> 220

Met Gln Arg Thr Phe Lys Tyr Leu His Phe Tyr Ile Ile Arg Phe Val
1 5 10 15

Ser Thr Tyr Ala Phe Ile Val Phe Phe Pro Phe Ser Ser Ser His Val
20 25 30

Asn Gly Pro Cys Glu Lys Asn Ile Pro Leu Gly Lys
35 40

<210> 221

<211> 515

<212> PRT

<213> Homo sapiens

<400> 221

Met Gly Ser Ala Pro Trp Ala Pro Val Leu Leu Leu Ala Leu Gly Leu
1 5 10 15

Arg Gly Leu Gln Ala Gly Gly Glu Trp Arg Arg Pro Pro Ala His Ser
20 25 30

Pro Val Pro Ala Pro Pro Leu Arg Phe Ala Ser Pro His Ser Pro Gln
35 40 45

Ala Pro Asp Pro Gly Phe Gln Glu Arg Phe Phe Gln Gln Arg Leu Asp
50 55 60

His Phe Asn Phe Glu Arg Phe Gly Asn Lys Thr Phe Pro Gln Arg Phe
65 70 75 80

Leu Val Ser Asp Arg Phe Trp Val Arg Gly Glu Gly Pro Ile Phe Phe
85 90 95

Tyr Thr Gly Asn Glu Gly Asp Val Trp Ala Phe Ala Asn Asn Ser Gly
100 105 110

Phe Val Ala Glu Leu Ala Ala Glu Arg Gly Ala Leu Leu Val Phe Ala
115 120 125

Glu His Arg Tyr Tyr Gly Lys Ser Leu Pro Phe Gly Ala Gln Ser Thr
130 135 140

Gln Arg Gly His Thr Glu Leu Leu Thr Val Glu Gln Ala Leu Ala Asp
145 150 155 160

Phe Ala Glu Leu Leu Arg Ala Leu Arg Arg Asp Leu Gly Ala Gln Asp
165 170 175

Ala Pro Ala Ile Ala Phe Gly Gly Ser Tyr Gly Gly Met Leu Ser Ala
 180 185 190
 Tyr Leu Arg Met Lys Tyr Pro His Leu Val Ala Gly Ala Leu Ala Ala
 195 200 205
 Ser Ala Pro Val Leu Ala Val Ala Gly Leu Gly Asp Ser Asn Gln Phe
 210 215 220
 Phe Arg Asp Val Thr Ala Asp Phe Glu Gly Gln Ser Pro Lys Cys Thr
 225 230 235 240
 Gln Gly Val Arg Glu Ala Phe Arg Gln Ile Lys Asp Leu Phe Leu Gln
 245 250 255
 Gly Ala Tyr Asp Thr Val Arg Trp Glu Phe Gly Thr Cys Gln Pro Leu
 260 265 270
 Ser Asp Glu Lys Asp Leu Thr Gln Leu Phe Met Phe Ala Arg Asn Ala
 275 280 285
 Phe Thr Val Leu Ala Met Met Asp Tyr Pro Tyr Pro Thr Asp Phe Leu
 290 295 300
 Gly Pro Leu Pro Ala Asn Pro Val Lys Val Gly Cys Asp Arg Leu Leu
 305 310 315 320
 Ser Glu Ala Gln Arg Ile Thr Gly Leu Arg Ala Leu Ala Gly Leu Val
 325 330 335
 Tyr Asn Ala Ser Gly Ser Glu His Cys Tyr Asp Ile Tyr Arg Leu Tyr
 340 345 350
 His Ser Cys Ala Asp Pro Thr Gly Cys Gly Thr Gly Pro Asp Ala Arg
 355 360 365
 Ala Trp Asp Tyr Gln Ala Cys Thr Glu Ile Asn Leu Thr Phe Ala Ser
 370 375 380
 Asn Asn Val Thr Asp Met Phe Pro Asp Leu Pro Phe Thr Asp Glu Leu
 385 390 395 400
 Arg Gln Arg Tyr Cys Leu Asp Thr Trp Gly Val Trp Pro Arg Pro Asp
 405 410 415
 Trp Leu Leu Thr Ser Phe Trp Gly Gly Asp Leu Arg Ala Ala Ser Asn
 420 425 430
 Ile Ile Phe Ser Asn Gly Asn Leu Asp Pro Trp Ala Gly Gly Gly Ile
 435 440 445
 Arg Arg Asn Leu Ser Ala Ser Val Ile Ala Val Thr Ile Gln Gly Gly
 450 455 460
 Ala His His Leu Asp Leu Arg Ala Ser His Pro Glu Asp Pro Ala Ser
 465 470 475 480
 Val Val Glu Ala Arg Lys Leu Glu Ala Thr Ile Ile Gly Glu Trp Val
 485 490 495
 Lys Ala Ala Arg Arg Glu Gln Gln Pro Ala Leu Arg Gly Gly Pro Arg
 500 505 510
 Leu Ser Leu
 515

<210> 222
 <211> 522
 <212> PRT
 <213> Homo sapiens

<400> 222

Met	Ala	Ala	Ala	Met	Pro	Leu	Ala	Leu	Leu	Val	Leu	Leu	Leu	Leu	Gly
1				5					10						15
Pro	Gly	Gly	Trp	Cys	Leu	Ala	Glu	Pro	Pro	Arg	Asp	Ser	Leu	Arg	Glu
			20					25					30		
Glu	Leu	Val	Ile	Thr	Pro	Leu	Pro	Ser	Gly	Asp	Val	Ala	Ala	Thr	Phe
		35					40					45			
Gln	Phe	Arg	Thr	Arg	Trp	Asp	Ser	Glu	Leu	Gln	Arg	Glu	Gly	Val	Ser
	50					55					60				
His	Tyr	Arg	Leu	Phe	Pro	Lys	Ala	Leu	Gly	Gln	Leu	Ile	Ser	Lys	Tyr
	65				70					75					80
Ser	Leu	Arg	Glu	Leu	His	Leu	Ser	Phe	Thr	Gln	Gly	Phe	Trp	Arg	Thr
				85					90					95	
Arg	Tyr	Trp	Gly	Pro	Pro	Phe	Leu	Gln	Ala	Pro	Ser	Asp	Thr	Asp	His
			100					105					110		
Tyr	Phe	Leu	Arg	Tyr	Ala	Val	Leu	Pro	Arg	Glu	Val	Val	Cys	Thr	Glu
		115					120					125			
Asn	Leu	Thr	Pro	Trp	Lys	Lys	Leu	Leu	Pro	Cys	Ser	Ser	Lys	Ala	Gly
	130					135					140				
Leu	Ser	Val	Leu	Leu	Lys	Ala	Asp	Arg	Leu	Phe	His	Thr	Ser	Tyr	His
	145				150					155					160
Ser	Gln	Ala	Val	His	Ile	Arg	Pro	Val	Cys	Arg	Asn	Ala	Arg	Cys	Thr
				165					170					175	
Ser	Ile	Ser	Trp	Glu	Leu	Arg	Gln	Thr	Leu	Ser	Val	Val	Phe	Asp	Ala
			180					185						190	
Phe	Ile	Thr	Gly	Gln	Gly	Lys	Lys	Asp	Trp	Ser	Leu	Phe	Arg	Met	Phe
		195					200					205			
Ser	Arg	Thr	Leu	Thr	Glu	Pro	Cys	Pro	Leu	Ala	Ser	Glu	Ser	Arg	Val
	210					215					220				
Tyr	Val	Asp	Ile	Thr	Thr	Tyr	Asn	Gln	Asp	Asn	Glu	Thr	Leu	Glu	Val
	225				230					235					240
His	Pro	Pro	Pro	Thr	Thr	Thr	Tyr	Gln	Asp	Val	Ile	Leu	Gly	Thr	Arg
				245					250					255	
Lys	Thr	Tyr	Ala	Ile	Tyr	Asp	Leu	Leu	Asp	Thr	Ala	Met	Ile	Asn	Asn
			260					265					270		
Ser	Arg	Asn	Leu	Asn	Ile	Gln	Leu	Lys	Trp	Lys	Arg	Pro	Pro	Glu	Asn
		275					280					285			
Glu	Ala	Pro	Pro	Val	Pro	Phe	Leu	His	Ala	Gln	Arg	Tyr	Val	Ser	Gly
	290					295					300				

Tyr Gly Leu Gln Lys Gly Glu Leu Ser Thr Leu Leu Tyr Asn Thr His
 305 310 315 320
 Pro Tyr Arg Ala Phe Pro Val Leu Leu Leu Asp Thr Val Pro Trp Tyr
 325 330 335
 Leu Arg Leu Tyr Val His Thr Leu Thr Ile Thr Ser Lys Gly Lys Glu
 340 345 350
 Asn Lys Pro Ser Tyr Ile His Tyr Gln Pro Ala Gln Asp Arg Leu Gln
 355 360 365
 Pro His Leu Leu Glu Met Leu Ile Gln Leu Pro Ala Asn Ser Val Thr
 370 375 380
 Lys Val Ser Ile Gln Phe Glu Arg Ala Leu Leu Lys Trp Thr Glu Tyr
 385 390 395 400
 Thr Pro Asp Pro Asn His Gly Phe Tyr Val Ser Pro Ser Val Leu Ser
 405 410 415
 Ala Leu Val Pro Ser Met Val Ala Ala Lys Pro Val Asp Trp Glu Glu
 420 425 430
 Ser Pro Leu Phe Asn Ser Leu Phe Pro Val Ser Asp Gly Ser Asn Tyr
 435 440 445
 Phe Val Arg Leu Tyr Thr Glu Pro Leu Leu Val Asn Leu Pro Thr Pro
 450 455 460
 Asp Phe Ser Met Pro Tyr Asn Val Ile Cys Leu Thr Cys Thr Val Val
 465 470 475 480
 Ala Val Cys Tyr Gly Ser Phe Tyr Asn Leu Leu Thr Arg Thr Phe His
 485 490 495
 Ile Glu Glu Pro Arg Thr Gly Gly Leu Ala Lys Arg Leu Ala Asn Leu
 500 505 510
 Ile Arg Arg Ala Arg Gly Val Pro Pro Leu
 515 520

<210> 223

<211> 52

<212> PRT

<213> Homo sapiens

<400> 223

Met Lys Ser His Ile Ser Trp Arg Leu Cys Ser Leu Leu Leu Ile Leu
 1 5 10 15

Phe Ser Leu Ile Leu Ser Ala Cys Phe Ile Ser Ala Arg Trp Ser Ser
 20 25 30

Asn Ser Asp Ile Phe Phe Ser Ala Trp Ser Ile Gln Leu Leu Ile Leu
 35 40 45

Val Tyr Ala Ser
 50

<210> 224

<211> 73

<212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (24)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 224
 Met Gly Phe Trp Cys Gly Cys Pro Phe Cys Leu Leu Val Phe Leu Leu
 1 5 10 15
 Thr Val Arg Thr Arg Ser Phe Xaa Ser Val Gly Val Cys Trp Arg Ser
 20 25 30
 Thr Pro Asp Pro Leu Cys Leu Gly Ile Ser Ser Arg Ser Cys Arg Thr
 35 40 45
 Ala Asp Ile Gly Glu Gln Gln Met Leu Leu Pro Asp Arg Ser Ser Gly
 50 55 60
 Ser Phe Val Ser Glu Tyr Pro Ala Met
 65 70

<210> 225
 <211> 54
 <212> PRT
 <213> Homo sapiens

<400> 225
 Met Tyr Arg Phe Phe Leu Cys Val Asp Leu Ser Phe Gln Leu Leu Trp
 1 5 10 15
 Val Ile Pro Arg Ser Thr Val Thr Gly Thr Tyr Gly Lys Asp Ile Phe
 20 25 30
 Ser Leu Ala Gly Asn His His Thr Val Phe Gln Ser Ser Cys Thr Ile
 35 40 45
 Leu His Thr His Gln His
 50

<210> 226
 <211> 72
 <212> PRT
 <213> Homo sapiens

<400> 226
 Met Ala Thr Ile Leu Leu Lys Leu Pro Ile Leu Ser Ala Met Ile Lys
 1 5 10 15
 Lys Pro Leu Arg Asn Tyr Leu Lys Thr Ser Glu Thr Thr Met Glu Lys
 20 25 30
 Ile Ile Ile Gln Lys Leu Val Ala Asn Leu Lys Phe Leu Pro Leu Gly
 35 40 45
 Thr Leu Gln Leu Ala Met Met Ile Ala Asn Leu Ile Lys Lys Leu Phe
 50 55 60
 Phe Pro Leu Val Lys Ala Ala Lys
 65 70

<210> 227
 <211> 66
 <212> PRT
 <213> Homo sapiens

<400> 227
 Met Tyr Leu Ala Val Tyr Leu Leu Leu Phe Leu Cys Ile Cys Phe Tyr
 1 5 10 15
 Phe Ile Ala Leu Phe Ser His Ala Leu Val Pro His Cys Phe Asn Tyr
 20 25 30
 Pro Gly Phe Ser Phe Asn Leu Val His Trp Ser Ser Leu Ile Pro Pro
 35 40 45
 Leu Pro Thr Phe Phe Phe Phe Asn Ser Phe Ser Asn Cys Ser Tyr Phe
 50 55 60
 Ser Ile
 65

<210> 228
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 228
 Met Ala Lys Thr Asp Phe Ser Ile Ile Leu Leu Lys Leu His Cys Leu
 1 5 10 15
 Phe Phe Phe Ser Val Ile Ser Val His Cys Ala Gln Ser Phe Ile Ser
 20 25 30
 Val Thr Gln Thr Glu Pro Ser Pro Ala Val Cys Ile Phe Pro Ala Val
 35 40 45
 Gly Ser Gly Leu Gly Pro Cys Asp
 50 55

<210> 229
 <211> 76
 <212> PRT
 <213> Homo sapiens

<400> 229
 Met Ala Gly Pro Trp Thr Phe Thr Leu Leu Cys Gly Leu Leu Ala Ala
 1 5 10 15
 Thr Leu Ile Gln Ala Thr Leu Ser Pro Thr Ala Val Leu Ile Leu Gly
 20 25 30
 Pro Lys Val Ile Lys Glu Lys Leu Thr Gln Glu Leu Lys Asp His Asn
 35 40 45
 Ala Thr Ser Ile Leu Gln Gln Leu Pro Leu Leu Ser Ala Met Arg Glu
 50 55 60
 Lys Pro Ala Gly Ala Ser Leu Cys Trp Ala Ala Trp
 65 70 75

<210> 230
 <211> 44
 <212> PRT
 <213> Homo sapiens

<400> 230
 Met Asp Leu Tyr Phe Phe Leu Leu Ala Gly Ile Gln Ala Val Thr Ala
 1 5 10 15
 Leu Leu Phe Val Trp Ile Ala Gly Arg Tyr Glu Arg Ala Ser Gln Gly
 20 25 30
 Pro Ala Ser His Ser Arg Phe Ser Arg Asp Arg Gly
 35 40

<210> 231
 <211> 101
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (47)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <220>
 <221> SITE
 <222> (98)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 231
 Met Ser Trp Val Gln Ala Thr Leu Leu Ala Arg Gly Leu Cys Arg Ala
 1 5 10 15
 Trp Gly Gly Thr Cys Gly Ala Ala Leu Thr Gly Thr Ser Ile Ser Gln
 20 25 30
 Val Pro Arg Arg Leu Pro Arg Gly Leu His Cys Ser Ala Leu Xaa Ile
 35 40 45
 Ala Leu Asn Ser Pro Trp Phe Pro Ala His Arg Asn Pro Gly Arg Gly
 50 55 60
 Pro Pro Arg Leu Trp Cys Pro Leu Arg Thr Cys Leu Gly Arg Arg Leu
 65 70 75 80
 Val Gly Asn Gly Thr Arg Arg Ala Ser Cys Arg Arg Cys Arg Asn Leu
 85 90 95
 Arg Xaa Gln Arg Ala
 100

<210> 232
 <211> 132
 <212> PRT
 <213> Homo sapiens

<400> 232
 Met Thr Tyr Phe Ser Gly Leu Leu Val Ile Leu Ala Phe Ala Ala Trp

1	5	10	15
Val Ala Leu Ala Glu Gly Leu Gly Val Ala Val Tyr Ala Ala Ala Val	20	25	30
Leu Leu Gly Ala Gly Cys Ala Thr Ile Leu Val Thr Ser Leu Ala Met	35	40	45
Thr Ala Asp Leu Ile Gly Pro His Thr Asn Ser Gly Ala Phe Val Tyr	50	55	60
Gly Ser Met Ser Phe Leu Asp Lys Val Ala Asn Gly Leu Ala Val Met	65	70	75
Ala Ile Gln Ser Leu His Pro Cys Pro Ser Glu Leu Cys Cys Arg Ala	85	90	95
Cys Val Ser Phe Tyr His Trp Ala Met Val Ala Val Thr Gly Gly Val	100	105	110
Gly Val Ala Ala Ala Leu Cys Leu Cys Ser Leu Leu Leu Trp Pro Thr	115	120	125
Arg Leu Arg Arg	130		

<210> 233
 <211> 66
 <212> PRT
 <213> Homo sapiens

1	5	10	15
Met Thr Tyr Phe Ser Gly Leu Leu Val Ile Leu Ala Phe Ala Ala Trp	5	10	15
Val Ala Leu Ala Glu Gly Leu Gly Val Ala Val Tyr Ala Ala Ala Val	20	25	30
Leu Leu Gly Ala Gly Cys Ala Thr Ile Leu Val Thr Ser Leu Ala Met	35	40	45
Thr Ala Asp Leu Ile Gly Pro His Thr Asn Ser Gly Leu Ser Cys Thr	50	55	60
Ala Pro	65		

<210> 234
 <211> 72
 <212> PRT
 <213> Homo sapiens

1	5	10	15
Met Pro Trp Lys Arg Ala Val Val Leu Leu Met Leu Trp Phe Ile Gly	5	10	15
Gln Ala Met Trp Leu Ala Pro Ala Tyr Val Leu Glu Phe Gln Gly Lys	20	25	30
Asn Thr Phe Leu Phe Ile Trp Leu Ala Gly Leu Phe Phe Leu Leu Ile	35	40	45

Asn Cys Ser Ile Leu Ile Gln Ile Ile Ser His Tyr Lys Glu Glu Pro
 50 55 60

Leu Thr Glu Arg Ile Lys Tyr Asp
 65 70

<210> 235

<211> 293

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (134)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 235

Met Leu Ala Leu Thr Phe Met Phe Met Val Leu Glu Val Val Val Ser
 1 5 10 15

Arg Val Thr Ser Ser Leu Ala Met Leu Ser Asp Ser Phe His Met Leu
 20 25 30

Ser Asp Val Leu Ala Leu Val Val Ala Leu Val Ala Glu Arg Phe Ala
 35 40 45

Arg Arg Thr His Ala Thr Gln Lys Asn Thr Phe Gly Trp Ile Arg Ala
 50 55 60

Glu Val Met Gly Ala Leu Val Asn Ala Ile Phe Leu Thr Gly Leu Cys
 65 70 75 80

Phe Ala Ile Leu Leu Glu Ala Ile Glu Arg Phe Ile Glu Pro His Glu
 85 90 95

Met Gln Gln Pro Leu Val Val Leu Gly Val Gly Val Ala Gly Leu Leu
 100 105 110

Val Asn Val Leu Gly Leu Cys Leu Phe His His His Ser Gly Phe Ser
 115 120 125

Gln Asp Ser Gly His Xaa His Ser His Gly Gly His Gly His Gly His
 130 135 140

Gly Leu Pro Lys Gly Pro Arg Val Lys Ser Thr Arg Pro Gly Ser Ser
 145 150 155 160

Asp Ile Asn Val Ala Pro Gly Glu Gln Gly Pro Asp Gln Glu Glu Thr
 165 170 175

Asn Thr Leu Val Ala Asn Thr Ser Asn Ser Asn Gly Leu Lys Leu Asp
 180 185 190

Pro Ala Asp Pro Glu Asn Pro Arg Ser Gly Asp Thr Val Glu Val Gln
 195 200 205

Val Asn Gly Asn Leu Val Arg Glu Pro Asp His Met Glu Leu Glu Glu
 210 215 220

Asp Arg Ala Gly Gln Leu Asn Met Arg Gly Val Phe Leu His Val Leu
 225 230 235 240

Gly Asp Ala Leu Gly Ser Val Ile Val Val Val Asn Ala Leu Val Phe
 245 250 255

Tyr Phe Ser Trp Lys Gly Cys Ser Glu Gly Asp Phe Cys Val Asn Pro
 260 265 270
 Cys Phe Pro Asp Pro Cys Lys Ala Phe Val Glu Ile Leu Ile Val Leu
 275 280 285
 Met His Gln Phe Met
 290

<210> 236
 <211> 550
 <212> PRT
 <213> Homo sapiens

<400> 236
 Met Lys Arg Ala Ser Ala Gly Gly Ser Arg Leu Leu Ala Trp Val Leu
 1 5 10 15
 Trp Leu Gln Ala Trp Gln Val Ala Ala Pro Cys Pro Gly Ala Cys Val
 20 25 30
 Cys Tyr Asn Glu Pro Lys Val Thr Thr Ser Cys Pro Gln Gln Gly Leu
 35 40 45
 Gln Ala Val Pro Val Gly Ile Pro Ala Ala Ser Gln Arg Ile Phe Leu
 50 55 60
 His Gly Asn Arg Ile Ser His Val Pro Ala Ala Ser Phe Arg Ala Cys
 65 70 75 80
 Arg Asn Leu Thr Ile Leu Trp Leu His Ser Asn Val Leu Ala Arg Ile
 85 90 95
 Asp Ala Ala Ala Phe Thr Gly Leu Ala Leu Leu Glu Gln Leu Asp Leu
 100 105 110
 Ser Asp Asn Ala Gln Leu Arg Ser Val Asp Pro Ala Thr Phe His Gly
 115 120 125
 Leu Gly Arg Leu His Thr Leu His Leu Asp Arg Cys Gly Leu Gln Glu
 130 135 140
 Leu Gly Pro Gly Leu Phe Arg Gly Leu Ala Ala Leu Gln Tyr Leu Tyr
 145 150 155 160
 Leu Gln Asp Asn Ala Leu Gln Ala Leu Pro Asp Asp Thr Phe Arg Asp
 165 170 175
 Leu Gly Asn Leu Thr His Leu Phe Leu His Gly Asn Arg Ile Ser Ser
 180 185 190
 Val Pro Glu Arg Ala Phe Arg Gly Leu His Ser Leu Asp Arg Leu Leu
 195 200 205
 Leu His Gln Asn Arg Val Ala His Val His Pro His Ala Phe Arg Asp
 210 215 220
 Leu Gly Arg Leu Met Thr Leu Tyr Leu Phe Ala Asn Asn Leu Ser Ala
 225 230 235 240
 Leu Pro Thr Glu Ala Leu Ala Pro Leu Arg Ala Leu Gln Tyr Leu Arg
 245 250 255

Leu Asn Asp Asn Pro Trp Val Cys Asp Cys Arg Ala Arg Pro Leu Trp
 260 265 270
 Ala Trp Leu Gln Lys Phe Arg Gly Ser Ser Ser Glu Val Pro Cys Ser
 275 280 285
 Leu Pro Gln Arg Leu Ala Gly Arg Asp Leu Lys Arg Leu Ala Ala Asn
 290 295 300
 Asp Leu Gln Gly Cys Ala Val Ala Thr Gly Pro Tyr His Pro Ile Trp
 305 310 315 320
 Thr Gly Arg Ala Thr Asp Glu Glu Pro Leu Gly Leu Pro Lys Cys Cys
 325 330 335
 Gln Pro Asp Ala Ala Asp Lys Ala Ser Val Leu Glu Pro Gly Arg Pro
 340 345 350
 Ala Ser Ala Gly Asn Ala Leu Lys Gly Arg Val Pro Pro Gly Asp Ser
 355 360 365
 Pro Pro Gly Asn Gly Phe Trp Pro Lys Gly Thr Leu Met Thr Tyr Pro
 370 375 380
 Phe Gly Thr Leu Pro Gly Leu Ala Glu Pro Pro Val Ser Ala Leu Arg
 385 390 395 400
 Pro Glu Gly Ser Glu Pro Pro Gly Ser Pro Leu Arg Ala Leu Arg Arg
 405 410 415
 Arg Pro Gly Cys Ser Arg Lys Asn Arg Thr Arg Ser His Ala Val Trp
 420 425 430
 Ala Arg Gln Ala Ala Gly Val Ala Gly Leu Val Thr Gln Lys Ala Gln
 435 440 445
 Val Pro Tyr Pro Ala Ser Pro Ala Ala Ser Pro Pro Trp Ala Trp Arg
 450 455 460
 Trp Cys Cys Gly Gln Cys Leu Gly Pro Ala Asp Pro Gln Arg Thr Gln
 465 470 475 480
 Glu Arg Ala Gln Gln Pro Gly Val Cys Thr Tyr Gly Val Ser Leu His
 485 490 495
 Ala Ala Lys Pro Ala Gly Arg Pro Thr Arg Gly Ala Gly Gln Ala Arg
 500 505 510
 Ser Ser Leu Met Asp Ala Cys Arg Pro Pro Pro Pro Ser Pro Pro His
 515 520 525
 His Val Tyr Arg Val Arg Arg Gln Arg Leu Phe Gln Asn Ala Ala Ser
 530 535 540
 His Pro Asp Arg Gly Ile
 545 550

<210> 237

<211> 380

<212> PRT

<213> Homo sapiens

<400> 237

Met Lys Arg Ala Ser Ala Gly Gly Ser Arg Leu Leu Ala Trp Val Leu

1	5	10	15
Trp Leu Gln Ala 20	Trp Gln Val Ala 25	Ala Pro Cys Pro Gly 30	Ala Cys Val
Cys Tyr Asn Glu 35	Pro Lys Val Thr 40	Thr Ser Cys Pro Gln 45	Gln Gly Leu
Gln Ala Val Pro 50	Val Gly Ile 55	Pro Ala Ala Ser Gln 60	Arg Ile Phe Leu
His Gly Asn Arg 65	Ile Ser His Val 70	Pro Ala Ala Ser 75	Phe Arg Ala Cys 80
Arg Asn Leu Thr 85	Ile Leu Trp Leu 90	His Ser Asn Val 95	Leu Ala Arg Ile
Asp Ala Ala Ala 100	Phe Thr Gly Leu 105	Ala Leu Leu Glu 110	Gln Leu Asp Leu
Ser Asp Asn Ala 115	Gln Leu Arg Ser 120	Val Asp Pro Ala 125	Thr Phe His Gly
Leu Gly Arg Leu 130	His Thr Val 135	His Leu Asp Arg 140	Cys Gly Leu Gln Glu
Leu Gly Pro Gly 145	Leu Phe Arg Gly 150	Ala Leu Ala Leu 155	Gln Tyr Leu Tyr 160
Leu Gln Asp Asn 165	Ala Leu Gln Ala 170	Pro Asp Asp Thr 175	Phe Arg Asp
Leu Gly Asn Leu 180	Thr His Leu Phe 185	His Gly Asn Arg 190	Ile Ser Ser
Val Pro Glu Arg 195	Ala Phe Arg Gly 200	Leu His Ser Leu 205	Asp Arg Leu Leu
Leu His Gln Asn 210	Arg Val Ala His 215	Val His Pro His 220	Ala Phe Arg Asp
Leu Gly Arg Leu 225	Met Thr Leu Tyr 230	Leu Phe Ala Asn 235	Asn Asn Leu Ser 240
Leu Pro Thr Glu 245	Ala Leu Ala Pro 250	Leu Arg Ala Leu 255	Gln Tyr Leu Arg 260
Leu Asn Asp Asn 260	Pro Trp Val Cys 265	Asp Cys Arg Ala 270	Arg Pro Leu Trp
Ala Trp Leu Gln 275	Lys Phe Arg Gly 280	Ser Ser Ser Glu 285	Val Pro Cys Ser
Leu Pro Gln Arg 290	Leu Ala Gly Arg 295	Asp Leu Lys Arg 300	Leu Ala Ala Asn
Asp Leu Gln Gly 305	Cys Ala Val Ala 310	Thr Gly Pro Tyr 315	His Pro Ile Trp 320
Thr Gly Arg Ala 325	Thr Asp Glu Glu 330	Pro Leu Gly Leu 335	Pro Lys Cys Cys
Gln Pro Asp Ala 340	Ala Asp Lys Ala 345	Ser Val Leu Glu 350	Gly Arg Pro
Ala Ser Ala Gly 350	Asn Ala Leu Lys 355	Gly Pro Arg Ala 360	Gly Arg Gly Gln

355 360 365
 Ala Arg Arg Glu Thr Val Phe Gly Pro Arg Glu His
 370 375 380

<210> 238
 <211> 54
 <212> PRT
 <213> Homo sapiens

<400> 238
 Met Lys Thr His Leu Leu Met Phe Leu Leu Ser Cys Met Ala Arg Cys
 1 5 10 15
 Thr Gly Ile Val Pro Lys Arg Pro Gln Pro Ala Phe Pro Leu Arg Gly
 20 25 30
 Arg Arg Arg Lys Asn Ser Phe Leu Phe Leu Leu Ser Phe Ser Ile Glu
 35 40 45
 Phe Leu Leu Cys Val Trp
 50

<210> 239
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 239
 Met Lys Thr His Leu Leu Met Phe Leu Leu Ser Cys Met Ala Arg Cys
 1 5 10 15
 Thr Gly Ile Val Pro Lys Arg Pro Gln Pro Ala Phe Pro Leu Arg Gly
 20 25 30
 Lys Glu Lys Lys Lys Leu Leu Phe Ile Phe Thr Phe Phe Gln His
 35 40 45

<210> 240
 <211> 53
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (41)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 240
 Met Cys Lys Ala Val Cys Lys His Arg Leu Arg Leu Phe Ala Val Ser
 1 5 10 15
 Ser Phe Ser Leu Gly Leu Gly Trp Val Cys Val Leu Val Leu Met Leu
 20 25 30
 Trp Pro Val Arg Leu Ser Leu Ala Xaa Arg Pro Val Gln Leu Gln Gln
 35 40 45
 Arg Arg Ser His Cys
 50

<210> 241
 <211> 69
 <212> PRT
 <213> Homo sapiens

<400> 241
 Met Ser Arg Lys Ser Leu Ala Phe Pro Ile Ile Cys Ser Tyr Leu Cys
 1 5 10 15
 Phe Leu Thr Val Ala Thr Cys Ser Ile Ala Cys Thr Thr Val Phe Phe
 20 25 30
 Ala Asn Leu Arg His Thr Arg Tyr Ile Cys Ile Glu Leu Ser Ala Leu
 35 40 45
 Glu Thr Ser Gly Val Ile Ser Pro Gln Ile Asn Asn Val Pro Glu Val
 50 55 60
 His Gly Lys Tyr Ser
 65

<210> 242
 <211> 68
 <212> PRT
 <213> Homo sapiens

<400> 242
 Met Lys Pro Thr Arg Ser Leu Trp Ile Ser Phe Leu Met Cys Cys Trp
 1 5 10 15
 Ile Trp Phe Ala Asn Ile Leu Leu Arg Ile Phe Ala Ser Val Phe Phe
 20 25 30
 Arg Asp Ile Gly Leu Lys Phe Ser Phe Phe Cys Cys Val Ser Ala Arg
 35 40 45
 Leu Trp Tyr Gln Asp Asp Ala Gly Leu Ile Asn Glu Leu Gly Arg Ile
 50 55 60
 Pro Ser Phe Tyr
 65

<210> 243
 <211> 67
 <212> PRT
 <213> Homo sapiens

<400> 243
 Met Gly Glu Ala Ser Pro Pro Ala Pro Ala Arg Arg His Leu Leu Val
 1 5 10 15
 Leu Leu Leu Leu Leu Ser Thr Leu Val Ile Pro Ser Ala Ala Ala Pro
 20 25 30
 Ile His Asp Ala Asp Ala Gln Glu Ser Ser Leu Gly Leu Thr Gly Leu
 35 40 45
 Gln Ser Leu Leu Gln Gly Phe Ser Arg Leu Phe Leu Lys Val Thr Cys
 50 55 60

Phe Gly Ala
65

<210> 244
<211> 90
<212> PRT
<213> Homo sapiens

<400> 244
Met Leu Val Val Ser Thr Val Ile Ile Val Phe Trp Glu Phe Ile Asn
1 5 10 15
Ser Thr Glu Gly Ser Phe Leu Trp Ile Tyr His Ser Lys Asn Pro Glu
20 25 30
Val Asp Asp Ser Ser Ala Gln Lys Gly Trp Trp Phe Leu Ser Trp Phe
35 40 45
Asn Asn Gly Ile His Asn Tyr Gln Gln Gly Glu Glu Asp Ile Asp Lys
50 55 60
Glu Lys Gly Arg Glu Glu Thr Lys Gly Arg Lys Met Thr Gln Gln Ser
65 70 75 80
Phe Gly Tyr Gly Thr Gly Leu Ile Gln Thr
85 90

<210> 245
<211> 140
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (117)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 245
Met Ala Phe Lys Leu Leu Ile Leu Leu Ile Gly Thr Trp Ala Leu Phe
1 5 10 15
Phe Arg Lys Arg Arg Ala Asp Met Pro Arg Val Phe Val Phe Arg Ala
20 25 30
Leu Leu Leu Val Leu Ile Phe Leu Phe Cys Gly Phe Pro Ile Gly Phe
35 40 45
Phe Thr Gly Ser Ala Phe Trp Thr Leu Gly Asn Arg Asn Tyr Gln Gly
50 55 60
Ile Val Gln Tyr Ala Val Ser Pro Cys Gly Met Pro Ser Ser Phe His
65 70 75 80
Pro Leu Leu Ala Ile Arg Pro Cys Trp Ser Ser Gly Ser Leu Gln Pro
85 90 95
Asn Val Pro Arg Cys Arg Leu Val Pro Leu Pro Thr Glu Trp Gly Asn
100 105 110
Pro Arg Phe Gln Xaa Gly Thr Pro Glu Tyr Pro Ala Ser Ser Ile Gly
115 120 125

Gly Pro Arg Lys Leu Leu Gln Arg Phe His His Leu
130 135 140

<210> 246
<211> 37
<212> PRT
<213> Homo sapiens

<400> 246
Met Gly Leu Pro Val Ser Trp Ala Pro Pro Ala Leu Trp Val Leu Gly
1 5 10 15
Cys Cys Ala Leu Leu Leu Ser Leu Trp Ala Leu Cys Thr Ala Cys Arg
20 25 30
Ser Pro Arg Thr Leu
35

<210> 247
<211> 20
<212> PRT
<213> Homo sapiens

<400> 247
Arg Leu Leu Asn Leu Ser Val Pro Met Phe Thr Phe Ile Val Val Lys
1 5 10 15
Arg Tyr Ala Thr
20

<210> 248
<211> 138
<212> PRT
<213> Homo sapiens

<400> 248
Met Ala Tyr Leu Thr Gly Met Leu Ser Ser Tyr Tyr Asn Thr Thr Ser
1 5 10 15
Val Leu Leu Cys Leu Gly Ile Thr Ala Leu Val Cys Leu Ser Val Thr
20 25 30
Val Phe Ser Phe Gln Thr Lys Phe Asp Phe Thr Ser Cys Gln Gly Val
35 40 45
Leu Phe Val Leu Leu Met Thr Leu Phe Phe Ser Gly Leu Ile Leu Ala
50 55 60
Ile Leu Leu Pro Phe Gln Tyr Val Pro Trp Leu His Ala Val Tyr Ala
65 70 75 80
Ala Leu Gly Ala Gly Val Phe Thr Leu Phe Leu Ala Leu Asp Thr Gln
85 90 95
Leu Leu Met Gly Asn Arg Arg His Ser Leu Ser Pro Glu Glu Tyr Ile
100 105 110
Phe Gly Ala Leu Asn Ile Tyr Leu Asp Ile Ile Tyr Ile Phe Thr Phe
115 120 125

Phe Leu Gln Leu Phe Gly Thr Asn Arg Glu
130 135

<210> 249
<211> 175
<212> PRT
<213> Homo sapiens

<400> 249
Met Ala Gln Trp Thr Ser Thr Gly Pro Gly Lys Pro Thr Arg Arg Gly
1 5 10 15
Leu Gly Ile Pro Thr Ala Ser Ser Gly Trp Val Trp Arg Arg Cys Ile
20 25 30
Ala Ser Trp Gly Thr Ala Thr Ala Trp Pro Cys Ser Cys Gly Thr
35 40 45
Gly Met Ala Thr Pro Ser Cys Cys Ser Ser Pro Cys Thr Trp Val Ala
50 55 60
Arg Thr Arg Pro Ile Ala Cys Ser Ser Leu His Pro Trp Pro Ala Ser
65 70 75 80
Trp Ala Pro Pro Pro Ser His Pro Ala Ala Ser Pro Tyr Pro Ser Pro
85 90 95
Leu Gly Thr Arg Ile Thr Thr Ser Ala Gly Thr Arg Thr Ala Pro Arg
100 105 110
Ala Ser Leu Glu Ala Gly Gly Leu Ala Pro Ala Ala Ile Pro Thr Phe
115 120 125
Asn Gly Pro Val Leu Pro Ala Pro Ser His Ser Ser Gly Arg Ser Leu
130 135 140
Arg Arg Glu Ser Ser Gly Arg Pro Ala Gly Arg Tyr Tyr Pro Leu Gln
145 150 155 160
Ala Thr Thr Met Leu Ile Gln Pro Met Ala Ala Glu Ala Ala Ser
165 170 175

<210> 250
<211> 101
<212> PRT
<213> Homo sapiens

<400> 250
Met Leu Leu Phe Gly Leu Cys Trp Gly Pro Tyr Val Ala Thr Leu Leu
1 5 10 15
Leu Ser Val Leu Ala Tyr Glu Gln Arg Pro Pro Leu Gly Pro Gly Thr
20 25 30
Leu Leu Ser Leu Leu Ser Leu Gly Ser Ala Ser Ala Ala Val Pro
35 40 45
Val Ala Met Gly Leu Gly Asp Gln Arg Tyr Thr Ala Pro Trp Arg Ala
50 55 60
Ala Ala Gln Arg Cys Leu Gln Gly Leu Trp Gly Arg Ala Ser Arg Asp


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<210> 251
<211> 39
<212> PRT
<213> Homo sapiens
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<210> 252
<211> 47
<212> PRT
<213> Homo sapiens
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<210> 253
<211> 34
<212> PRT
<213> Homo sapiens
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<210> 254
<211> 490
<212> PRT
<213> Homo sapiens
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<400> 254

Met	Gly	Ser	Ala	Pro	Trp	Ala	Pro	Val	Leu	Leu	Leu	Ala	Leu	Gly	Leu
1				5					10					15	
Arg	Gly	Leu	Gln	Ala	Gly	Ala	Arg	Ser	Gly	Pro	Arg	Leu	Pro	Gly	Ala
			20					25					30		
Leu	Leu	Pro	Ala	Ala	Ser	Gly	Pro	Leu	Gln	Leu	Arg	Ala	Leu	Arg	Gln
		35					40					45			
Gln	Asp	Leu	Pro	Ser	Ala	Leu	Pro	Gly	Val	Gly	Gln	Val	Leu	Gly	Pro
	50					55					60				
Gly	Arg	Gly	Ala	His	Leu	Leu	Leu	His	Trp	Glu	Arg	Gly	Arg	Arg	Val
	65				70					75					80
Gly	Leu	Arg	Gln	Gln	Leu	Gly	Leu	Arg	Arg	Gly	Leu	Ala	Ala	Glu	Arg
				85					90					95	
Gly	Ala	Leu	Leu	Val	Phe	Ala	Glu	His	Arg	Tyr	Tyr	Gly	Lys	Ser	Leu
			100					105					110		
Pro	Phe	Gly	Ala	Gln	Ser	Thr	Gln	Arg	Gly	His	Thr	Glu	Leu	Leu	Thr
		115					120					125			
Val	Glu	Gln	Ala	Leu	Ala	Asp	Phe	Ala	Glu	Leu	Leu	Arg	Ala	Leu	Arg
	130					135						140			
Arg	Asp	Leu	Gly	Ala	Gln	Asp	Ala	Pro	Ala	Ile	Ala	Phe	Gly	Gly	Ser
	145				150					155					160
Tyr	Gly	Gly	Met	Leu	Ser	Ala	Tyr	Leu	Arg	Met	Lys	Tyr	Pro	His	Leu
				165					170					175	
Val	Ala	Gly	Ala	Leu	Ala	Ala	Ser	Ala	Pro	Val	Leu	Ser	Val	Ala	Gly
			180					185					190		
Leu	Gly	Asp	Ser	Asn	Gln	Phe	Phe	Arg	Asp	Val	Thr	Ala	Asp	Phe	Glu
		195					200					205			
Gly	Gln	Ser	Pro	Lys	Cys	Thr	Gln	Gly	Val	Arg	Glu	Ala	Phe	Arg	Gln
	210					215					220				
Ile	Lys	Asp	Leu	Phe	Leu	Gln	Gly	Ala	Tyr	Asp	Thr	Val	Arg	Trp	Glu
	225				230					235					240
Phe	Gly	Thr	Cys	Gln	Pro	Leu	Ser	Asp	Glu	Lys	Asp	Leu	Thr	Gln	Leu
				245					250					255	
Phe	Met	Phe	Ala	Arg	Asn	Ala	Phe	Thr	Val	Leu	Ala	Met	Met	Asp	Tyr
			260					265					270		
Pro	Tyr	Pro	Thr	Asp	Phe	Leu	Gly	Pro	Leu	Pro	Ala	Asn	Pro	Val	Lys
		275					280					285			
Val	Gly	Cys	Asp	Arg	Leu	Leu	Ser	Glu	Ala	Gln	Arg	Ile	Thr	Gly	Leu
	290					295					300				
Arg	Ala	Leu	Ala	Gly	Leu	Val	Tyr	Asn	Ala	Ser	Gly	Ser	Glu	His	Cys
	305				310					315					320
Tyr	Asp	Ile	Tyr	Arg	Leu	Tyr	His	Ser	Cys	Ala	Asp	Pro	Thr	Gly	Cys
				325					330					335	
Gly	Thr	Gly	Pro	Asp	Ala	Arg	Ala	Trp	Asp	Tyr	Gln	Ala	Cys	Thr	Glu
			340					345					350		

Ile Asn Leu Thr Phe Ala Ser Asn Asn Val Thr Asp Met Phe Pro Asp
 355 360 365
 Leu Pro Phe Thr Asp Glu Leu Arg Gln Arg Tyr Cys Leu Asp Thr Trp
 370 375 380
 Gly Val Trp Pro Arg Pro Asp Trp Leu Leu Thr Ser Phe Trp Gly Gly
 385 390 395 400
 Asp Leu Arg Ala Ala Ser Asn Ile Ile Phe Ser Asn Gly Asn Leu Asp
 405 410 415
 Pro Trp Ala Gly Gly Gly Ile Arg Arg Asn Leu Ser Ala Ser Val Ile
 420 425 430
 Ala Val Thr Ile Gln Gly Gly Ala His His Leu Asp Leu Arg Ala Ser
 435 440 445
 His Pro Glu Asp Pro Ala Ser Val Val Glu Ala Arg Lys Leu Glu Ala
 450 455 460
 Thr Ile Ile Gly Glu Trp Val Lys Ala Ala Arg Arg Glu Gln Gln Pro
 465 470 475 480
 Ala Leu Arg Gly Gly Pro Arg Leu Ser Leu
 485 490

<210> 255

<211> 554

<212> PRT

<213> Homo sapiens

<400> 255

Gly Gly Gly Tyr Ala Leu Ala Leu Leu Val Leu Leu Leu Leu Gly Pro
 1 5 10 15
 Gly Gly Trp Cys Leu Ala Glu Pro Pro Arg Asp Ser Leu Arg Glu Glu
 20 25 30
 Leu Val Ile Thr Pro Leu Pro Ser Gly Asp Val Ala Ala Thr Phe Gln
 35 40 45
 Phe Arg Thr Arg Trp Asp Ser Glu Leu Gln Arg Glu Gly Val Ser His
 50 55 60
 Tyr Arg Leu Phe Pro Lys Ala Leu Gly Gln Leu Ile Ser Lys Tyr Ser
 65 70 75 80
 Leu Arg Glu Leu His Leu Ser Phe Thr Gln Gly Phe Trp Arg Thr Arg
 85 90 95
 Tyr Trp Gly Pro Pro Phe Leu Gln Ala Pro Ser Asp Thr Asp His Tyr
 100 105 110
 Phe Leu Arg Tyr Ala Val Leu Pro Arg Glu Val Val Cys Thr Glu Asn
 115 120 125
 Leu Thr Pro Trp Lys Lys Leu Leu Pro Cys Ser Ser Lys Ala Gly Leu
 130 135 140
 Ser Val Leu Leu Lys Ala Asp Arg Leu Phe His Thr Ser Tyr His Ser
 145 150 155 160

Gln Ala Val His Ile Arg Pro Val Cys Arg Asn Ala Arg Cys Thr Ser
 165 170 175
 Ile Ser Trp Glu Leu Arg Gln Thr Leu Ser Val Val Phe Asp Ala Phe
 180 185 190
 Ile Thr Gly Gln Gly Lys Lys Asp Trp Ser Leu Phe Arg Met Phe Ser
 195 200 205
 Arg Thr Leu Thr Glu Pro Cys Pro Leu Ala Ser Glu Ser Arg Val Tyr
 210 215 220
 Val Asp Ile Thr Thr Tyr Asn Gln Asp Asn Glu Thr Leu Glu Val His
 225 230 235 240
 Pro Pro Pro Thr Thr Thr Tyr Gln Asp Val Ile Leu Gly Thr Arg Lys
 245 250 255
 Thr Tyr Ala Ile Tyr Asp Leu Leu Asp Thr Ala Met Ile Asn Asn Ser
 260 265 270
 Arg Asn Leu Asn Ile Gln Leu Lys Trp Lys Arg Pro Pro Glu Asn Glu
 275 280 285
 Ala Pro Pro Val Pro Phe Leu His Ala Gln Arg Tyr Val Ser Gly Tyr
 290 295 300
 Gly Leu Gln Lys Gly Glu Leu Ser Thr Leu Leu Tyr Asn Thr His Pro
 305 310 315 320
 Tyr Arg Ala Phe Pro Val Leu Leu Leu Asp Thr Val Pro Trp Tyr Leu
 325 330 335
 Arg Leu Tyr Val His Thr Leu Thr Ile Thr Ser Lys Gly Lys Glu Asn
 340 345 350
 Lys Pro Ser Tyr Ile His Tyr Gln Pro Ala Gln Asp Arg Leu Gln Pro
 355 360 365
 His Leu Leu Glu Met Leu Ile Gln Leu Pro Ala Asn Ser Val Thr Lys
 370 375 380
 Val Ser Ile Gln Phe Glu Arg Ala Leu Leu Lys Trp Thr Glu Tyr Thr
 385 390 395 400
 Pro Asp Pro Asn His Gly Phe Tyr Val Ser Pro Ser Val Leu Ser Ala
 405 410 415
 Leu Val Pro Ser Met Val Ala Ala Lys Pro Val Asp Trp Glu Glu Ser
 420 425 430
 Pro Leu Phe Asn Ser Leu Phe Pro Val Ser Asp Gly Ser Asn Tyr Phe
 435 440 445
 Val Arg Leu Tyr Thr Glu Pro Leu Leu Val Asn Leu Pro Thr Pro Asp
 450 455 460
 Phe Ser Met Pro Tyr Asn Val Ile Cys Leu Thr Cys Thr Val Val Ala
 465 470 475 480
 Val Cys Tyr Gly Ser Phe Tyr Asn Leu Leu Thr Arg Thr Phe Pro His
 485 490 495
 Arg Gly Ala Pro His Arg Trp Pro Gly Gln Ala Ala Gly Gln Pro Tyr
 500 505 510

Pro Ala Arg Pro Ser Val Pro Pro Thr Leu Ile Leu Ala Leu Ser Ser
 515 520 525

Ser Cys Ser Cys Arg Phe Ser Leu Gly Arg Gly Ala Gln Gly Leu Phe
 530 535 540

Leu Pro Leu Ala Leu Leu Arg Val Gly Phe
 545 550

<210> 256
 <211> 69
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (26)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (51)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (68)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 256
 Met Tyr Leu Ala Val Tyr Leu Leu Leu Phe Leu Cys Ile Cys Phe Tyr
 1 5 10 15

Phe Ile Ala Leu Phe Ser His Ala Leu Xaa Pro His Cys Phe Asn Tyr
 20 25 30

Pro Gly Phe Ser Phe Asn Leu Val His Trp Ser Ser Leu Ile Pro Pro
 35 40 45

Leu Pro Xaa Phe Phe Phe Phe Asn Ser Phe Ser Asn Cys Ser Leu Phe
 50 55 60

Phe Pro Tyr Xaa Leu
 65

<210> 257
 <211> 21
 <212> PRT
 <213> Homo sapiens

<400> 257
 Thr Arg Pro Glu Lys Val Gln Ala Pro Leu Lys Trp Phe Lys Phe Gln
 1 5 10 15

Ile Leu Asp Pro Pro
 20

<210> 258
 <211> 272
 <212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (229)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 258

Ser	Ala	Glu	Phe	Gly	Val	Ala	Pro	Leu	Pro	Gly	Arg	Arg	Gly	Ser	Pro	1	5	10	15
Val	Arg	Gln	Leu	Ala	Gln	Phe	Arg	Arg	Arg	Leu	Leu	Arg	Gly	Ser	Gly	20	25	30	
Gly	Arg	Gly	Ala	Pro	Gly	Arg	Pro	Pro	Arg	Cys	Pro	Gly	Glu	Ala	Arg	35	40	45	
Val	Met	Xaa	Pro	Pro	Ser	Cys	Ile	Gln	Asp	Glu	Pro	Phe	Pro	His	Pro	50	55	60	
Leu	Glu	Pro	Glu	Pro	Gly	Val	Ser	Ala	Gln	Pro	Gly	Pro	Gly	Lys	Pro	65	70	75	
Ser	Asp	Lys	Arg	Phe	Arg	Leu	Trp	Tyr	Val	Gly	Gly	Ser	Cys	Leu	Asp	85	90	95	
His	Arg	Thr	Thr	Leu	Pro	Met	Leu	Pro	Trp	Leu	Met	Ala	Glu	Ile	Arg	100	105	110	
Arg	Arg	Ser	Gln	Lys	Pro	Glu	Ala	Gly	Gly	Cys	Gly	Ala	Pro	Ala	Ala	115	120	125	
Arg	Glu	Val	Ile	Leu	Val	Leu	Ser	Ala	Pro	Phe	Leu	Arg	Cys	Val	Pro	130	135	140	
Ala	Pro	Gly	Ala	Gly	Ala	Ser	Gly	Gly	Thr	Ser	Pro	Ser	Ala	Thr	Gln	145	150	155	
Pro	Asn	Pro	Ala	Val	Phe	Ile	Phe	Glu	His	Lys	Ala	Gln	His	Ile	Ser	165	170	175	
Arg	Phe	Ile	His	Asn	Ser	His	Asp	Leu	Thr	Tyr	Phe	Ala	Tyr	Leu	Ile	180	185	190	
Lys	Ala	Gln	Pro	Asp	Asp	Pro	Glu	Ser	Gln	Met	Ala	Cys	His	Val	Phe	195	200	205	
Arg	Ala	Thr	Asp	Pro	Ser	Gln	Val	Pro	Asp	Val	Ile	Ser	Ser	Ile	Arg	210	215	220	
Gln	Leu	Ser	Lys	Xaa	Ala	Met	Lys	Glu	Asp	Ala	Lys	Pro	Ser	Lys	Asp	225	230	235	
Asn	Glu	Asp	Ala	Phe	Tyr	Asn	Ser	Gln	Lys	Phe	Glu	Val	Leu	Tyr	Cys	245	250	255	
Gly	Lys	Val	Thr	Val	Thr	Pro	Gln	Glu	Gly	Pro	Leu	Lys	Pro	His	Arg	260	265	270	

<210> 259
 <211> 14
 <212> PRT
 <213> Homo sapiens

<400> 259
 Pro Met Leu Pro Trp Leu Met Ala Glu Ile Arg Arg Arg Ser
 1 5 10

<210> 260
 <211> 19
 <212> PRT
 <213> Homo sapiens

<400> 260
 Ile His Asn Ser His Asp Leu Thr Tyr Phe Ala Tyr Leu Ile Lys Ala
 1 5 10 15

Gln Pro Asp

<210> 261
 <211> 12
 <212> PRT
 <213> Homo sapiens

<400> 261
 Lys Phe Glu Val Leu Tyr Cys Gly Lys Val Thr Val
 1 5 10

<210> 262
 <211> 13
 <212> PRT
 <213> Homo sapiens

<400> 262
 Ile Ser Ser Ile Arg Gln Leu Ser Lys Ala Met Lys Glu
 1 5 10

<210> 263
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 263
 Gly Glu Arg Arg Asn Trp Gly Gly Glu Val Tyr Tyr Ser Thr Gly Tyr
 1 5 10 15

Ser Ser Arg Lys
 20

<210> 264
 <211> 9

<400> 264
Glu Pro Gly Ala Ala Gln Glu Ser Trp
1 5

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<220>
<221> SITE
<222> (108)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (120)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (138)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (165)
<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 265															
Leu 1	Cys	Ala	Arg	Pro 5	Ser	Cys	Ser	Tyr	Thr 10	Gly	Ala	Glu	Asn	Gln 15	Gly
Gln	Pro	Arg	Ser 20	Pro	Gly	Trp	Gly	Ser 25	Ser	His	Val	Gly	Trp 30	Gly	Trp
Gly	Val	Gly 35	Ser	Pro	Phe	Leu	Gly 40	Ser	Gln	Glu	Trp	Ser 45	Gly	Leu	Ala
Pro	Asp 50	Leu	Pro	Asp	Gln	Glu 55	Glu	Glu	Gln	Pro	Val 60	Gly	Arg	His	Ser
Cys 65	Pro	Asp	Met	Ser	Gln 70	Cys	Ile	Lys	Arg	Gly 75	His	Gln	Pro	Val	Gly 80
Phe	Ser	Lys	His 85	Ala	Trp	Arg	Cys	Leu	Val 90	Gly	Cys	Cys	Pro	Trp 95	Glu
Glu	Glu	Lys	Arg 100	Ser	Cys	His	Pro	Phe 105	Gly	Ala	Xaa	Leu	Leu 110	Trp	Val
Leu	Arg	Phe 115	Ala	Leu	Gln	Pro	Xaa 120	Val	Tyr	Glu	Asp	Pro 125	Ala	Ala	Leu
Asp	Gly 130	Gly	Glu	Glu	Gly	Met 135	Asp	Ile	Xaa	Thr	His 140	Ile	Leu	Ala	Leu
Ala 145	Pro	Arg	Leu	Leu	Lys 150	Asp	Ser	Gly	Ser	Ile 155	Phe	Leu	Glu	Val	Asp 160
Pro	Arg	His	Pro	Xaa	Leu	Val	Ser	Ser	Trp	Leu	Gln	Ser	Arg	Pro	Asp

149

165 170 175
Leu Tyr Leu Asn Leu Val Ala Val Arg Arg Asp Phe Cys Gly Arg Pro
180 185 190
Arg Phe Leu His Ile Arg Arg Ser Gly Pro
195 200

<210> 266
<211> 37
<212> PRT
<213> Homo sapiens

<400> 266
Leu Cys Ala Arg Pro Ser Cys Ser Tyr Thr Gly Ala Glu Asn Gln Gly
1 5 10 15
Gln Pro Arg Ser Pro Gly Trp Gly Ser Ser His Val Gly Trp Gly Trp
20 25 30
Gly Val Gly Ser Pro
35

<210> 267
<211> 37
<212> PRT
<213> Homo sapiens

<400> 267
Phe Leu Gly Ser Gln Glu Trp Ser Gly Leu Ala Pro Asp Leu Pro Asp
1 5 10 15
Gln Glu Glu Glu Gln Pro Val Gly Arg His Ser Cys Pro Asp Met Ser
20 25 30
Gln Cys Ile Lys Arg
35

<210> 268
<211> 37
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (34)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 268
Gly His Gln Pro Val Gly Phe Ser Lys His Ala Trp Arg Cys Leu Val
1 5 10 15
Gly Cys Cys Pro Trp Glu Glu Glu Lys Arg Ser Cys His Pro Phe Gly
20 25 30
Ala Xaa Leu Leu Trp
35

<210> 269
 <211> 37
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (9)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (27)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 269
 Val Leu Arg Phe Ala Leu Gln Pro Xaa Val Tyr Glu Asp Pro Ala Ala
 1 5 10 15
 Leu Asp Gly Gly Glu Glu Gly Met Asp Ile Xaa Thr His Ile Leu Ala
 20 25 30
 Leu Ala Pro Arg Leu
 35

<210> 270
 <211> 54
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (17)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 270
 Leu Lys Asp Ser Gly Ser Ile Phe Leu Glu Val Asp Pro Arg His Pro
 1 5 10 15
 Xaa Leu Val Ser Ser Trp Leu Gln Ser Arg Pro Asp Leu Tyr Leu Asn
 20 25 30
 Leu Val Ala Val Arg Arg Asp Phe Cys Gly Arg Pro Arg Phe Leu His
 35 40 45
 Ile Arg Arg Ser Gly Pro
 50

<210> 271
 <211> 19
 <212> PRT
 <213> Homo sapiens

<400> 271
 Gln Glu Leu Leu Val Lys Ile Pro Leu Asp Met Val Ala Gly Phe Asn
 1 5 10 15
 Thr Pro Leu

<210> 272
 <211> 26
 <212> PRT
 <213> Homo sapiens

<400> 272
 Leu Arg Ile Gln Leu Leu His Lys Leu Ser Phe Leu Val Asn Ala Leu
 1 5 10 15
 Ala Lys Gln Val Met Asn Leu Leu Val Pro
 20 25

<210> 273
 <211> 20
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> SITE
 <222> (2)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (10)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 273
 His Xaa Ile Trp Leu Lys Val Ile Thr Xaa Asn Ile Leu Gln Leu Gln
 1 5 10 15
 Val Lys Pro Ser
 20

<210> 274
 <211> 58
 <212> PRT
 <213> Homo sapiens

<400> 274
 Ala Gly Pro Trp Thr Phe Thr Leu Leu Cys Gly Leu Leu Ala Ala Thr
 1 5 10 15
 Leu Ile Gln Ala Thr Leu Ser Pro Thr Ala Val Leu Ile Leu Gly Pro
 20 25 30
 Lys Val Ile Lys Glu Lys Leu Thr Gln Glu Leu Lys Asp His Asn Ala
 35 40 45
 Thr Ser Ile Leu Gln Gln Leu Pro Leu Leu
 50 55

<210> 275
 <211> 15
 <212> PRT
 <213> Homo sapiens

<400> 275
 His Phe Ile Ile Thr Leu Thr Thr Phe Phe Thr Asn Tyr Phe Leu
 1 5 10 15

<210> 276
 <211> 99
 <212> PRT
 <213> Homo sapiens

<400> 276
 Met Lys Ile Thr Phe Gln Asp Leu Phe Pro Met Trp Asn Ser Phe Lys
 1 5 10 15
 Cys Phe Leu His Gly Asn Val Phe Ser Leu Phe Val Leu Phe Pro Leu
 20 25 30
 Leu Thr Cys Phe Ser Phe Pro Tyr Thr Val Asn Ser Gly Thr Lys Leu
 35 40 45
 Asp Trp Val Gly Trp Leu Val Gly Trp Phe Phe Leu Glu Phe Met Tyr
 50 55 60
 Ile Asn Lys Gly Phe Glu Val Thr Ser Glu Asn Asn Ile Ser Lys Arg
 65 70 75 80
 Val Leu Val Arg Glu Asn Ile Arg Ile Lys Ser Ser Pro Glu Arg Val
 85 90 95
 Leu Arg Met

<210> 277
 <211> 19
 <212> PRT
 <213> Homo sapiens

<400> 277
 Arg Phe Trp Gly Ser Tyr Glu Pro His Phe Ser Gln Glu Val Ser Val
 1 5 10 15
 Ile Pro Pro

<210> 278
 <211> 56
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (32)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 278
 Ile Arg Gly Asn Tyr Phe Ser Gly Arg Lys Lys Ser Ser Ser Asp Thr
 1 5 10 15
 Pro Lys Gly Ser Lys Asp Lys Ile Ser Val Trp Asn Arg Ser Gln Xaa
 20 25 30
 Ala Cys Ile Arg Ile Cys Lys Val His Pro Asn Tyr Ile Gln Ile Tyr
 35 40 45

Leu Trp His Ser Ala Thr Ser Phe
 50 55

<210> 279
 <211> 74
 <212> PRT
 <213> Homo sapiens

<400> 279
 Ala Gly Asn Gln Val Glu Pro Phe His Val Ser Leu Pro Ser Cys Leu
 1 5 10 15
 Ser Pro Leu Pro His Leu Gly His Ser Met Gly Val Pro Ser Pro Thr
 20 25 30
 Ala Trp Pro Ser Leu Ala Ser Phe His Thr Gln Lys Lys Ala Arg Ile
 35 40 45
 Arg Gln Glu Glu Glu Ser Pro Pro Leu Pro Ser Pro Gln Glu Leu Ala
 50 55 60
 Phe Ser Ala Leu Arg Val Phe Phe Arg Val
 65 70

<210> 280
 <211> 38
 <212> PRT
 <213> Homo sapiens

<400> 280
 Phe Ile Gln Gln Asn Ile Ser Phe Leu Leu Gly Tyr Ser Ile Pro Val
 1 5 10 15
 Gly Cys Val Gly Leu Ala Phe Phe Ile Phe Leu Phe Ala Thr Pro Val
 20 25 30
 Phe Ile Thr Lys Pro Pro
 35

<210> 281
 <211> 347
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (16)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (340)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (341)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 281

Val 1	Ser	Ala	His	His 5	Pro	Ser	Gly	Ala	Asp 10	Glu	Gly	Val	Thr	Ala 15	Xaa
Gln	Ile	Leu	Pro 20	Thr	Glu	Glu	Tyr	Glu 25	Glu	Ala	Met	Ser	Thr 30	Met	Gln
Val	Ser	Gln 35	Leu	Asp	Leu	Phe	Arg 40	Leu	Leu	Asp	Gln	Asn 45	Arg	Asp	Gly
His	Leu 50	Gln	Leu	Arg	Glu	Val 55	Leu	Ala	Gln	Thr	Arg 60	Leu	Gly	Asn	Gly
Trp 65	Trp	Met	Thr	Pro	Glu 70	Ser	Ile	Gln	Glu	Met 75	Tyr	Ala	Ala	Ile	Lys 80
Ala	Asp	Pro	Asp	Gly 85	Asp	Gly	Val	Leu	Ser 90	Leu	Gln	Glu	Phe	Ser 95	Asn
Met	Asp	Leu	Arg 100	Asp	Phe	His	Lys	Tyr 105	Met	Arg	Ser	His	Lys 110	Ala	Glu
Ser	Ser	Glu 115	Leu	Val	Arg	Asn	Ser 120	His	His	Thr	Trp	Leu 125	Tyr	Gln	Gly
Glu	Gly 130	Ala	His	His	Ile	Met 135	Arg	Ala	Ile	Arg	Gln 140	Arg	Val	Leu	Arg
Leu 145	Thr	Arg	Leu	Ser	Pro 150	Glu	Ile	Val	Glu	Leu 155	Ser	Glu	Pro	Leu	Gln 160
Val	Val	Arg	Tyr	Gly 165	Glu	Gly	Gly	His	Tyr 170	His	Ala	His	Val	Asp 175	Ser
Gly	Pro	Val	Tyr 180	Pro	Glu	Thr	Ile	Cys 185	Ser	His	Thr	Lys	Leu 190	Val	Ala
Asn	Glu	Ser 195	Val	Pro	Phe	Glu	Thr 200	Ser	Cys	Arg	Tyr	Met 205	Thr	Val	Leu
Phe	Tyr 210	Leu	Asn	Asn	Val	Thr 215	Gly	Gly	Gly	Glu	Thr 220	Val	Phe	Pro	Val
Ala 225	Asp	Asn	Arg	Thr	Tyr 230	Asp	Glu	Met	Ser	Leu 235	Ile	Gln	Asp	Asp	Val 240
Asp	Leu	Arg	Asp	Thr 245	Arg	Arg	His	Cys	Asp 250	Lys	Gly	Asn	Leu	Arg 255	Val
Lys	Pro	Gln	Gln 260	Gly	Thr	Ala	Val	Phe 265	Trp	Tyr	Asn	Tyr	Leu 270	Pro	Asp
Gly	Gln	Gly 275	Trp	Val	Gly	Asp	Val 280	Asp	Asp	Tyr	Ser	Leu 285	His	Gly	Gly
Cys 290	Leu	Val	Thr	Arg	Gly	Thr 295	Lys	Trp	Ile	Ala	Asn 300	Asn	Trp	Ile	Asn
Val 305	Asp	Pro	Ser	Arg	Ala 310	Arg	Gln	Ala	Leu	Phe 315	Gln	Gln	Glu	Met	Ala 320
Arg	Leu	Ala	Arg	Glu 325	Gly	Gly	Thr	Asp	Ser 330	Gln	Pro	Glu	Trp	Ala 335	Leu
Asp	Arg	Ala	Xaa 340	Xaa	Asp	Ala	Arg	Val 345	Glu	Leu					

<210> 282
 <211> 6
 <212> PRT
 <213> Homo sapiens

<400> 282
 Ala Val Phe Trp Tyr Asn
 1 5

<210> 283
 <211> 18
 <212> PRT
 <213> Homo sapiens

<400> 283
 Thr Val Leu Phe Tyr Leu Asn Asn Val Thr Gly Gly Gly Glu Thr Val
 1 5 10 15

Phe Pro

<210> 284
 <211> 59
 <212> PRT
 <213> Homo sapiens

<400> 284
 Asp Leu Phe Arg Leu Leu Asp Gln Asn Arg Asp Gly His Leu Gln Leu
 1 5 10 15

Arg Glu Val Leu Ala Gln Thr Arg Leu Gly Asn Gly Trp Trp Met Thr
 20 25 30

Pro Glu Ser Ile Gln Glu Met Tyr Ala Ala Ile Lys Ala Asp Pro Asp
 35 40 45

Gly Asp Gly Val Leu Ser Leu Gln Glu Phe Ser
 50 55

<210> 285
 <211> 38
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (16)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 285
 Val Ser Ala His His Pro Ser Gly Ala Asp Glu Gly Val Thr Ala Xaa
 1 5 10 15

Gln Ile Leu Pro Thr Glu Glu Tyr Glu Glu Ala Met Ser Thr Met Gln
 20 25 30

Val Ser Gln Leu Asp Leu
 35

<210> 286
 <211> 38
 <212> PRT
 <213> Homo sapiens

<400> 286
 Phe Arg Leu Leu Asp Gln Asn Arg Asp Gly His Leu Gln Leu Arg Glu
 1 5 10 15
 Val Leu Ala Gln Thr Arg Leu Gly Asn Gly Trp Trp Met Thr Pro Glu
 20 25 30
 Ser Ile Gln Glu Met Tyr
 35

<210> 287
 <211> 38
 <212> PRT
 <213> Homo sapiens

<400> 287
 Ala Ala Ile Lys Ala Asp Pro Asp Gly Asp Gly Val Leu Ser Leu Gln
 1 5 10 15
 Glu Phe Ser Asn Met Asp Leu Arg Asp Phe His Lys Tyr Met Arg Ser
 20 25 30
 His Lys Ala Glu Ser Ser
 35

<210> 288
 <211> 38
 <212> PRT
 <213> Homo sapiens

<400> 288
 Glu Leu Val Arg Asn Ser His His Thr Trp Leu Tyr Gln Gly Glu Gly
 1 5 10 15
 Ala His His Ile Met Arg Ala Ile Arg Gln Arg Val Leu Arg Leu Thr
 20 25 30
 Arg Leu Ser Pro Glu Ile
 35

<210> 289
 <211> 38
 <212> PRT
 <213> Homo sapiens

<400> 289
 Val Glu Leu Ser Glu Pro Leu Gln Val Val Arg Tyr Gly Glu Gly Gly
 1 5 10 15
 His Tyr His Ala His Val Asp Ser Gly Pro Val Tyr Pro Glu Thr Ile
 20 25 30

Cys Ser His Thr Lys Leu
35

<210> 290

<211> 38

<212> PRT

<213> Homo sapiens

<400> 290

Val Ala Asn Glu Ser Val Pro Phe Glu Thr Ser Cys Arg Tyr Met Thr
1 5 10 15

Val Leu Phe Tyr Leu Asn Asn Val Thr Gly Gly Gly Glu Thr Val Phe
20 25 30

Pro Val Ala Asp Asn Arg
35

<210> 291

<211> 38

<212> PRT

<213> Homo sapiens

<400> 291

Thr Tyr Asp Glu Met Ser Leu Ile Gln Asp Asp Val Asp Leu Arg Asp
1 5 10 15

Thr Arg Arg His Cys Asp Lys Gly Asn Leu Arg Val Lys Pro Gln Gln
20 25 30

Gly Thr Ala Val Phe Trp
35

<210> 292

<211> 38

<212> PRT

<213> Homo sapiens

<400> 292

Tyr Asn Tyr Leu Pro Asp Gly Gln Gly Trp Val Gly Asp Val Asp Asp
1 5 10 15

Tyr Ser Leu His Gly Gly Cys Leu Val Thr Arg Gly Thr Lys Trp Ile
20 25 30

Ala Asn Asn Trp Ile Asn
35

<210> 293

<211> 43

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (37)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 293
 Val Asp Pro Ser Arg Ala Arg Gln Ala Leu Phe Gln Gln Glu Met Ala
 1 5 10 15
 Arg Leu Ala Arg Glu Gly Gly Thr Asp Ser Gln Pro Glu Trp Ala Leu
 20 25 30
 Asp Arg Ala Xaa Xaa Asp Ala Arg Val Glu Leu
 35 40

<210> 294
 <211> 15
 <212> PRT
 <213> Homo sapiens

<400> 294
 Leu Leu Ala Asp Leu Met Arg Asn Tyr Asp Pro His Leu Arg Pro
 1 5 10 15

<210> 295
 <211> 19
 <212> PRT
 <213> Homo sapiens

<400> 295
 Ile Ser Val Thr Tyr Phe Pro Phe Asp Trp Gln Asn Cys Ser Leu Ile
 1 5 10 15
 Phe Gln Ser

<210> 296
 <211> 16
 <212> PRT
 <213> Homo sapiens

<400> 296
 Ser Met Ala Arg Gly Val Arg Lys Val Phe Leu Arg Leu Leu Pro Gln
 1 5 10 15

<210> 297
 <211> 18
 <212> PRT
 <213> Homo sapiens

<400> 297
 Gln Ala Ser Pro Ala Ile Gln Ala Cys Val Asp Ala Cys Asn Leu Met
 1 5 10 15

Ala Arg

<210> 298
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 298
 Tyr Asn Gln Val Pro Asp Leu Pro Phe Pro Gly Asp Pro Arg Pro Tyr
 1 5 10 15

Leu

<210> 299
 <211> 15
 <212> PRT
 <213> Homo sapiens

<400> 299
 Cys Ser Ile Ser Val Thr Tyr Phe Pro Phe Asp Trp Gln Asn Cys
 1 5 10 15

<210> 300
 <211> 18
 <212> PRT
 <213> Homo sapiens

<400> 300
 Val Leu Lys Tyr Ala Leu Phe Leu Val Leu Lys Asn Tyr Tyr Tyr Cys
 1 5 10 15

Pro Tyr

<210> 301
 <211> 315
 <212> PRT
 <213> Homo sapiens

<400> 301
 Met Arg Glu Tyr Gly Val Glu Arg Asp Leu Ala Val Tyr Asn Gln Leu
 1 5 10 15

Leu Asn Ile Phe Pro Lys Glu Val Phe Arg Pro Arg Asn Ile Ile Gln
 20 25 30

Arg Ile Phe Val His Tyr Pro Arg Gln Gln Glu Cys Gly Ile Ala Val
 35 40 45

Leu Glu Gln Met Glu Asn His Gly Val Met Pro Asn Lys Glu Thr Glu
 50 55 60

Phe Leu Leu Ile Gln Ile Phe Gly Arg Lys Ser Tyr Pro Met Leu Lys
 65 70 75 80

Leu Val Arg Leu Lys Leu Trp Phe Pro Arg Phe Met Asn Val Asn Pro
 85 90 95

Phe Pro Val Pro Arg Asp Leu Pro Gln Asp Pro Val Glu Leu Ala Met
 100 105 110
 Phe Gly Leu Arg His Met Glu Pro Asp Leu Ser Ala Arg Val Thr Ile
 115 120 125
 Tyr Gln Val Pro Leu Pro Lys Asp Ser Thr Gly Ala Ala Asp Pro Pro
 130 135 140
 Gln Pro His Ile Val Gly Ile Gln Ser Pro Asp Gln Gln Ala Ala Leu
 145 150 155 160
 Ala Arg His Asn Pro Ala Arg Pro Val Phe Val Glu Gly Pro Phe Ser
 165 170 175
 Leu Trp Leu Arg Asn Lys Cys Val Tyr Tyr His Ile Leu Arg Ala Asp
 180 185 190
 Leu Leu Pro Pro Glu Glu Arg Glu Val Glu Glu Thr Pro Glu Glu Trp
 195 200 205
 Asn Leu Tyr Tyr Pro Met Gln Leu Asp Leu Glu Tyr Val Arg Ser Gly
 210 215 220
 Trp Asp Asn Tyr Glu Phe Asp Ile Asn Glu Val Glu Glu Gly Pro Val
 225 230 235 240
 Phe Ala Met Cys Met Ala Gly Ala His Asp Gln Ala Thr Met Ala Lys
 245 250 255
 Trp Ile Gln Gly Leu Gln Glu Thr Asn Pro Thr Leu Ala Gln Ile Pro
 260 265 270
 Val Val Phe Arg Leu Ala Gly Ser Thr Arg Glu Leu Gln Thr Ser Ser
 275 280 285
 Ala Gly Leu Glu Glu Pro Pro Leu Pro Glu Asp His Gln Glu Glu Asp
 290 295 300
 Asp Asn Leu Gln Arg Gln Gln Gln Gly Gln Ser
 305 310 315

<210> 302

<211> 19

<212> PRT

<213> Homo sapiens

<400> 302

Phe Gln Phe Gly Trp Ala Ser Thr Gln Ile Ser His Leu Ser Leu Ile
 1 5 10 15

Pro Glu Leu

<210> 303

<211> 14

<212> PRT

<213> Homo sapiens

<400> 303

Leu Arg Tyr Ala Phe Thr Val Val Ala Asn Ile Thr Val Tyr

161

1 5 10

<210> 304
<211> 17
<212> PRT
<213> Homo sapiens

<400> 304
Phe Val Tyr Gly Ser Met Ser Phe Leu Asp Lys Val Ala Asn Gly Leu
1 5 10 15

Ala

<210> 305
<211> 17
<212> PRT
<213> Homo sapiens

<400> 305
Trp His Leu Val Gly Thr Val Cys Val Leu Leu Ser Phe Pro Phe Ile
1 5 10 15

Phe

<210> 306
<211> 15
<212> PRT
<213> Homo sapiens

<400> 306
Gly His Phe Leu Asn Asp Leu Cys Ala Ser Met Trp Phe Thr Tyr
1 5 10 15

<210> 307
<211> 40
<212> PRT
<213> Homo sapiens

<400> 307
Ala Ile Pro Leu Arg Val Leu Val Val Leu Trp Ala Phe Val Leu Gly
1 5 10 15

Leu Ser Arg Val Met Leu Gly Arg His Asn Val Thr Asp Val Ala Phe
20 25 30

Gly Phe Phe Leu Gly Tyr Met Gln
35 40

<210> 308
<211> 13
<212> PRT
<213> Homo sapiens

<400> 308

Val Gly Leu Ser Arg Val Leu Gly Arg His Thr Asp Val
 1 5 10

<210> 309
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 309
 Ser Phe Tyr Lys Met Lys Arg Asn Ser Tyr Asp Arg Leu Arg Lys Val
 1 5 10 15

Val

<210> 310
 <211> 39
 <212> PRT
 <213> Homo sapiens

<400> 310
 Leu His Gln Leu Arg Pro Pro His Arg Phe Pro Leu Ile Pro Pro Ala
 1 5 10 15

Ala Ala Glu Gly Ala Gly Ala Pro Pro Gly Cys Gly Tyr Cys Val Phe
 20 25 30

Trp Leu Leu Asn Pro Leu Pro
 35

<210> 311
 <211> 72
 <212> PRT
 <213> Homo sapiens

<400> 311
 Met Pro Trp Lys Arg Ala Val Val Leu Leu Met Leu Trp Phe Ile Gly
 1 5 10 15

Gln Ala Met Trp Leu Ala Pro Ala Tyr Val Leu Glu Phe Gln Gly Lys
 20 25 30

Asn Thr Phe Leu Phe Ile Trp Leu Ala Gly Leu Phe Phe Leu Leu Ile
 35 40 45

Asn Cys Ser Ile Leu Ile Gln Ile Ile Ser His Tyr Lys Glu Glu Pro
 50 55 60

Leu Thr Glu Arg Ile Lys Tyr Asp
 65 70

<210> 312
 <211> 22
 <212> PRT
 <213> Homo sapiens

<400> 312
 Ala Arg Ala Gln Pro Phe Ala Phe Gln Leu Arg Pro Ala Pro Gly Arg

1 5 10 15

Pro Gly Ser Pro Val Ala
20

<210> 313
<211> 297
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (12)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (50)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (79)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (297)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 313
Ala Gly Leu Pro Gly Ala Leu Thr Ala Pro Ala Xaa His His His Ala
1 5 10 15

Asp Ser Arg Pro Ala Glu Leu Val Val Gln Pro Leu Ser Pro Pro Arg
20 25 30

Pro Leu Leu Ser His Ala Gly Leu Ala Ser Ala Ala Gly Ala Ser Ser
35 40 45

Leu Xaa Arg Val Pro Gly Glu Ala Glu Ser Leu Cys Ala Leu Ser Pro
50 55 60

Gly Ser Ala Leu Arg Phe Pro Ala Ala Ser Cys Ser Arg Pro Xaa Arg
65 70 75 80

Glu Pro Ser Gly Asp Glu Gly Thr Ala Gly Ala Leu Pro Ser Pro Trp
85 90 95

Leu Ala Ala Leu Gly Pro Gly Gly Arg Pro Ala Val Arg Arg Val Leu
100 105 110

Pro Arg Leu Gly Gly Arg Ala Gly Gln Leu Pro Arg Gly Leu Pro Val
115 120 125

Pro Arg Gly Leu Arg His Ala Gly Arg Tyr His Leu Leu Arg Leu Leu
130 135 140

Arg Ala Pro Leu Leu Leu Arg Arg Gly Arg Arg Gln Ala Gly Ala Gly
145 150 155 160

Arg Leu His Gln Arg Pro Pro Arg Thr Gly Ala Pro Arg His His Cys
165 170 175

Ala Ala Cys Leu Arg Pro Leu Ser His Arg Arg Leu His Leu His Cys
 180 185 190

Val His His Pro Gly Leu Cys Ser Gly Tyr Leu Leu Leu His Leu Phe
 195 200 205

Glu Thr Gln Gly Ala Leu Ala Ala Ala Asn Pro Leu Leu Thr Pro Gln
 210 215 220

Leu Ser Asp Arg Asp Pro Ala His Asp Pro Asp Leu His Gln Pro Gln
 225 230 235 240

Gly Thr Leu Pro Ala Val Gln His Ser His Glu Leu Gln Leu His Arg
 245 250 255

Arg Leu His Pro Gln Val Leu Leu Ser His Leu Val Ser Trp Cys His
 260 265 270

Pro Ser Ile Ser Leu Thr Pro Phe Ser Arg Ser Pro His Trp Leu Gly
 275 280 285

Arg Ala Val Gln Thr Phe Ser Ser Xaa
 290 295

<210> 314
 <211> 38
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (12)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 314
 Ala Gly Leu Pro Gly Ala Leu Thr Ala Pro Ala Xaa His His His Ala
 1 5 10 15

Asp Ser Arg Pro Ala Glu Leu Val Val Gln Pro Leu Ser Pro Pro Arg
 20 25 30

Pro Leu Leu Ser His Ala
 35

<210> 315
 <211> 40
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (12)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 315
 Gly Leu Ala Ser Ala Ala Gly Ala Ser Ser Leu Xaa Arg Val Pro Gly
 1 5 10 15

Glu Ala Glu Ser Leu Cys Ala Leu Ser Pro Gly Ser Ala Leu Arg Phe
 20 25 30

Pro Ala Ala Ser Cys Ser Arg Pro

35

40

<210> 316

<211> 40

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 316

Xaa	Arg	Glu	Pro	Ser	Gly	Asp	Glu	Gly	Thr	Ala	Gly	Ala	Leu	Pro	Ser
1				5					10					15	

Pro	Trp	Leu	Ala	Ala	Leu	Gly	Pro	Gly	Gly	Arg	Pro	Ala	Val	Arg	Arg
			20					25					30		

Val	Leu	Pro	Arg	Leu	Gly	Gly	Arg
		35					40

<210> 317

<211> 40

<212> PRT

<213> Homo sapiens

<400> 317

Ala	Gly	Gln	Leu	Pro	Arg	Gly	Leu	Pro	Val	Pro	Arg	Gly	Leu	Arg	His
1				5					10					15	

Ala	Gly	Arg	Tyr	His	Leu	Leu	Arg	Leu	Leu	Arg	Ala	Pro	Leu	Leu	Leu
			20					25					30		

Arg	Arg	Gly	Arg	Arg	Gln	Ala	Gly
		35					40

<210> 318

<211> 40

<212> PRT

<213> Homo sapiens

<400> 318

Ala	Gly	Arg	Leu	His	Gln	Arg	Pro	Pro	Arg	Thr	Gly	Ala	Pro	Arg	His
1				5					10					15	

His	Cys	Ala	Ala	Cys	Leu	Arg	Pro	Leu	Ser	His	Arg	Arg	Leu	His	Leu
			20					25					30		

His	Cys	Val	His	His	Pro	Gly	Leu
		35					40

<210> 319

<211> 40

<212> PRT

<213> Homo sapiens

<400> 319

Cys Ser Gly Tyr Leu Leu Leu His Leu Phe Glu Thr Gln Gly Ala Leu
 1 5 10 15
 Ala Ala Ala Asn Pro Leu Leu Thr Pro Gln Leu Ser Asp Arg Asp Pro
 20 25 30
 Ala His Asp Pro Asp Leu His Gln
 35 40

<210> 320
 <211> 59
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (59)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 320
 Pro Gln Gly Thr Leu Pro Ala Val Gln His Ser His Glu Leu Gln Leu
 1 5 10 15
 His Arg Arg Leu His Pro Gln Val Leu Leu Ser His Leu Val Ser Trp
 20 25 30
 Cys His Pro Ser Ile Ser Leu Thr Pro Phe Ser Arg Ser Pro His Trp
 35 40 45
 Leu Gly Arg Ala Val Gln Thr Phe Ser Ser Xaa
 50 55

<210> 321
 <211> 28
 <212> PRT
 <213> Homo sapiens

<400> 321
 Val Ala His Thr Cys Asn Leu Ser Thr Leu Gly Gly Gln Gly Gly Arg
 1 5 10 15
 Ile Glu Arg Thr Ala Gly Gln Glu Phe Lys Thr Ser
 20 25

<210> 322
 <211> 115
 <212> PRT
 <213> Homo sapiens

<400> 322
 His Tyr Lys Ser Tyr Ala Cys Arg Tyr Arg Ser Gly Ile Arg Gly Arg
 1 5 10 15
 Val Asp Glu Val Leu Thr Asn Cys His Trp Thr Tyr Leu Lys Gln Asn
 20 25 30
 Arg Lys Met Ala Ala Asn Ser Ser Gly Gln Ala Leu His Ser Arg Asp
 35 40 45
 Pro Leu Leu Ile Arg Thr Ser Gly Ile Thr Leu Ser Ser Ser Ile Leu

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<210> 323
<211> 19
<212> PRT
<213> Homo sapiens

<400> 323
Thr Ile Lys Met Gln Thr Glu Asn Leu Gly Val Val Tyr Tyr Val Asn
  1             5             10             15
Lys Asp Phe

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<210> 325
<211> 7
<212> PRT
<213> Homo sapiens

<400> 325
Met Val Ser Asn Pro Pro Tyr
1 5
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<210>	327
<211>	129
<212>	PRT

<213> Homo sapiens

<400> 327

Arg Glu Ser Trp Tyr Ala Cys Arg Tyr Arg Ser Gly Ile Pro Gly Ser
 1 5 10 15
 Thr His Ala Ser Glu Leu Met Pro Ile Ile Val Leu Ile Leu Val Ser
 20 25 30
 Leu Leu Ser Gln Leu Met Val Ser Asn Pro Pro Tyr Ser Leu Tyr Pro
 35 40 45
 Arg Ser Gly Thr Gly Gln Thr Ile Lys Met Gln Thr Glu Asn Leu Gly
 50 55 60
 Val Val Tyr Tyr Val Asn Lys Asp Phe Lys Asn Glu Tyr Lys Gly Met
 65 70 75 80
 Leu Leu Gln Lys Val Glu Lys Ser Val Glu Glu Asp Tyr Val Thr Asn
 85 90 95
 Ile Arg Asn Asn Cys Trp Lys Glu Arg Gln Gln Lys Thr Asp Met Gln
 100 105 110
 Tyr Ala Ala Lys Val Tyr Arg Asp Asp Arg Leu Arg Arg Arg Gln Met
 115 120 125
 Pro

<210> 328

<211> 35

<212> PRT

<213> Homo sapiens

<400> 328

Leu Val Ala Leu Asp Arg Met Glu Tyr Val Arg Thr Phe Arg Lys Arg
 1 5 10 15
 Glu Asp Leu Arg Gly Arg Leu Phe Trp Val Ala Leu Asp Leu Leu Asp
 20 25 30
 Leu Leu Asp
 35

<210> 329

<211> 88

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 329

Ser Val Ala Leu Phe Tyr Asn Phe Gly Lys Ser Trp Lys Ser Asp Pro
 1 5 10 15
 Gly Ile Ile Lys Xaa Thr Glu Glu Gln Lys Lys Lys Thr Ile Val Glu
 20 25 30

Leu Ala Glu Thr Gly Ser Leu Asp Leu Ser Ile Phe Cys Ser Thr Cys
 35 40 45
 Leu Ile Arg Lys Pro Val Arg Ser Lys His Cys Gly Val Cys Asn Arg
 50 55 60
 Cys Ile Ala Lys Phe Asp His His Cys Pro Trp Val Gly Asn Cys Val
 65 70 75 80
 Gly Ala Gly Asn His Arg Tyr Phe
 85

<210> 330
 <211> 12
 <212> PRT
 <213> Homo sapiens

<400> 330
 Phe Asp His His Cys Pro Trp Val Gly Asn Cys Val
 1 5 10

<210> 331
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 331
 Gln Met Tyr Gln Ile Ser Cys Leu Gly Ile Thr Thr Asn Glu Arg Met
 1 5 10 15

Asn Ala Arg Arg
 20

<210> 332
 <211> 12
 <212> PRT
 <213> Homo sapiens

<400> 332
 Arg Val Thr Ser Ser Leu Ala Met Leu Ser Asp Ser
 1 5 10

<210> 333
 <211> 15
 <212> PRT
 <213> Homo sapiens

<400> 333
 Ala Ile Glu Arg Phe Ile Glu Pro His Glu Met Gln Gln Pro Leu
 1 5 10 15

<210> 334
 <211> 49
 <212> PRT
 <213> Homo sapiens

<400> 334

Asn Ala Leu Val Phe Tyr Phe Ser Trp Lys Gly Cys Ser Glu Gly Asp
 1 5 10 15

Phe Cys Val Asn Pro Cys Phe Pro Asp Pro Cys Lys Pro Phe Val Glu
 20 25 30

Ile Ile Asn Ser Thr His Ala Ser Val Tyr Glu Ala Gly Pro Cys Trp
 35 40 45

Val

<210> 335

<211> 307

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (148)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 335

Ala Gly Ile Arg His Glu Arg Asn Arg Gly Arg Leu Leu Cys Met Leu
 1 5 10 15

Ala Leu Thr Phe Met Phe Met Val Leu Glu Val Val Val Ser Arg Val
 20 25 30

Thr Ser Ser Leu Ala Met Leu Ser Asp Ser Phe His Met Leu Ser Asp
 35 40 45

Val Leu Ala Leu Val Val Ala Leu Val Ala Glu Arg Phe Ala Arg Arg
 50 55 60

Thr His Ala Thr Gln Lys Asn Thr Phe Gly Trp Ile Arg Ala Glu Val
 65 70 75 80

Met Gly Ala Leu Val Asn Ala Ile Phe Leu Thr Gly Leu Cys Phe Ala
 85 90 95

Ile Leu Leu Glu Ala Ile Glu Arg Phe Ile Glu Pro His Glu Met Gln
 100 105 110

Gln Pro Leu Val Val Leu Gly Val Gly Val Ala Gly Leu Leu Val Asn
 115 120 125

Val Leu Gly Leu Cys Leu Phe His His His Ser Gly Phe Ser Gln Asp
 130 135 140

Ser Gly His Xaa His Ser His Gly Gly His Gly His Gly His Gly Leu
 145 150 155 160

Pro Lys Gly Pro Arg Val Lys Ser Thr Arg Pro Gly Ser Ser Asp Ile
 165 170 175

Asn Val Ala Pro Gly Glu Gln Gly Pro Asp Gln Glu Glu Thr Asn Thr
 180 185 190

Leu Val Ala Asn Thr Ser Asn Ser Asn Gly Leu Lys Leu Asp Pro Ala
 195 200 205

Asp Pro Glu Asn Pro Arg Ser Gly Asp Thr Val Glu Val Gln Val Asn

210		215		220
Gly Asn Leu Val Arg Glu Pro Asp His Met Glu Leu Glu Glu Asp Arg				
225		230		235
Ala Gly Gln Leu Asn Met Arg Gly Val Phe Leu His Val Leu Gly Asp				
	245		250	255
Ala Leu Gly Ser Val Ile Val Val Val Asn Ala Leu Val Phe Tyr Phe				
	260		265	270
Ser Trp Lys Gly Cys Ser Glu Gly Asp Phe Cys Val Asn Pro Cys Phe				
	275		280	285
Pro Asp Pro Cys Lys Ala Phe Val Glu Ile Leu Ile Val Leu Met His				
	290		295	300
Gln Phe Met				
305				

<210> 336

<211> 504

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (148)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (403)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 336

Ala Gly Ile Arg His Glu Arg Asn Arg Gly Arg Leu Leu Cys Met Leu
1 5 10 15

Ala Leu Thr Phe Met Phe Met Val Leu Glu Val Val Val Ser Arg Val
20 25 30

Thr Ser Ser Leu Ala Met Leu Ser Asp Ser Phe His Met Leu Ser Asp
35 40 45

Val Leu Ala Leu Val Val Ala Leu Val Ala Glu Arg Phe Ala Arg Arg
50 55 60

Thr His Ala Thr Gln Lys Asn Thr Phe Gly Trp Ile Arg Ala Glu Val
65 70 75 80

Met Gly Ala Leu Val Asn Ala Ile Phe Leu Thr Gly Leu Cys Phe Ala
85 90 95

Ile Leu Leu Glu Ala Ile Glu Arg Phe Ile Glu Pro His Glu Met Gln
100 105 110

Gln Pro Leu Val Val Leu Gly Val Gly Val Ala Gly Leu Leu Val Asn
115 120 125

Val Leu Gly Leu Cys Leu Phe His His His Ser Gly Phe Ser Gln Asp
130 135 140

Ser Gly His Xaa His Ser His Gly Gly His Gly His Gly His Gly Leu

145	150								155						160	
Pro	Lys	Gly	Pro	Arg 165	Val	Lys	Ser	Thr	Arg 170	Pro	Gly	Ser	Ser	Asp 175	Ile	
Asn	Val	Ala	Pro 180	Gly	Glu	Gln	Gly	Pro 185	Asp	Gln	Glu	Glu	Thr 190	Asn	Thr	
Leu	Val	Ala 195	Asn	Thr	Ser	Asn	Ser 200	Asn	Gly	Leu	Lys	Leu 205	Asp	Pro	Ala	
Asp	Pro 210	Glu	Asn	Pro	Arg	Ser 215	Gly	Asp	Thr	Val	Glu 220	Val	Gln	Val	Asn	
Gly 225	Asn	Leu	Val	Arg	Glu 230	Pro	Asp	His	Met	Glu 235	Leu	Glu	Glu	Asp	Arg 240	
Ala	Gly	Gln	Leu	Asn 245	Met	Arg	Gly	Val	Phe 250	Leu	His	Val	Leu	Gly 255	Asp	
Ala	Leu	Gly	Ser 260	Val	Ile	Val	Val	Val 265	Asn	Ala	Leu	Val	Phe 270	Tyr	Phe	
Ser	Trp	Lys 275	Gly	Cys	Ser	Glu	Gly 280	Asp	Phe	Cys	Val	Asn 285	Pro	Cys	Phe	
Pro	Asp 290	Pro	Cys	Lys	Pro	Phe 295	Val	Glu	Ile	Ile	Asn 300	Ser	Thr	His	Ala	
Ser 305	Val	Tyr	Glu	Ala	Gly 310	Pro	Cys	Trp	Val	Leu 315	Tyr	Leu	Asp	Pro	Thr 320	
Leu	Cys	Val	Val	Met 325	Val	Cys	Ile	Leu	Leu 330	Tyr	Thr	Thr	Tyr	Pro 335	Leu	
Leu	Lys	Glu	Ser 340	Ala	Leu	Ile	Leu	Leu 345	Gln	Thr	Val	Pro	Lys 350	Gln	Ile	
Asp	Ile	Arg 355	Asn	Leu	Ile	Lys	Glu 360	Leu	Arg	Asn	Val	Glu 365	Gly	Val	Glu	
Glu	Val 370	His	Glu	Leu	His	Val 375	Trp	Gln	Leu	Ala	Gly 380	Ser	Arg	Ile	Ile	
Ala 385	Thr	Ala	His	Ile	Lys 390	Cys	Glu	Asp	Pro	Thr 395	Ser	Tyr	Met	Glu	Val 400	
Ala	Lys	Xaa	Ile	Lys 405	Asp	Val	Phe	His	Asn 410	His	Gly	Ile	His	Ala 415	Thr	
Thr	Ile	Gln	Pro 420	Glu	Phe	Ala	Ser	Val 425	Gly	Ser	Lys	Ser	Ser	Val	Val	
Pro	Cys	Glu 435	Leu	Ala	Cys	Arg	Thr 440	Gln	Cys	Ala	Leu	Lys 445	Gln	Cys	Cys	
Gly	Thr 450	Leu	Pro	Gln	Ala	Pro 455	Ser	Gly	Lys	Asp	Ala 460	Glu	Lys	Thr	Pro	
Ala 465	Val	Ser	Ile	Ser	Cys 470	Leu	Glu	Leu	Ser	Asn 475	Asn	Leu	Glu	Lys	Lys 480	
Pro	Arg	Arg	Thr	Lys 485	Ala	Glu	Asn	Ile	Pro 490	Ala	Val	Val	Ile	Glu 495	Ile	
Lys	Asn	Met	Pro	Lys	Gln	Thr	Thr									

500

<210> 337
 <211> 254
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (130)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 337
 Met Phe Thr Phe Ala Ser Met Thr Lys Glu Asp Ser Lys Leu Ile Ala
 1 5 10 15
 Leu Ile Trp Pro Ser Glu Trp Gln Met Ile Gln Lys Leu Phe Val Val
 20 25 30
 Asp His Val Ile Lys Ile Thr Arg Ile Glu Val Gly Asp Val Asn Pro
 35 40 45
 Ser Glu Thr Gln Tyr Ile Ser Glu Pro Lys Leu Cys Pro Glu Cys Arg
 50 55 60
 Glu Gly Leu Leu Cys Gln Gln Gln Arg Asp Leu Arg Glu Tyr Thr Gln
 65 70 75 80
 Ala Thr Ile Tyr Val His Lys Val Val Asp Asn Lys Lys Val Met Lys
 85 90 95
 Asp Ser Ala Pro Glu Leu Asn Val Ser Ser Ser Glu Thr Glu Glu Asp
 100 105 110
 Lys Glu Glu Ala Lys Pro Asp Gly Glu Lys Asp Pro Asp Phe Asn Gln
 115 120 125
 Ser Xaa Gly Gly Thr Lys Arg Gln Lys Ile Ser His Gln Asn Tyr Ile
 130 135 140
 Ala Tyr Gln Lys Gln Val Ile Arg Arg Ser Met Arg His Arg Lys Val
 145 150 155 160
 Arg Gly Glu Lys Ala Leu Leu Val Ser Ala Asn Gln Thr Leu Lys Glu
 165 170 175
 Leu Lys Ile Gln Ile Met His Ala Phe Ser Val Ala Pro Phe Asp Gln
 180 185 190
 Asn Leu Ser Ile Asp Gly Lys Ile Leu Ser Asp Asp Cys Ala Thr Leu
 195 200 205
 Gly Thr Leu Gly Val Ile Pro Glu Ser Val Ile Leu Leu Lys Ala Asp
 210 215 220
 Glu Pro Ile Ala Asp Tyr Ala Ala Met Asp Asp Val Met Gln Val Cys
 225 230 235 240
 Met Pro Glu Glu Gly Phe Lys Gly Thr Gly Leu Leu Gly His
 245 250

<210> 338

<211> 21
 <212> PRT
 <213> Homo sapiens

<400> 338
 Ser Ala Pro Glu Leu Asn Val Ser Ser Ser Glu Thr Glu Glu Asp Lys
 1 5 10 15
 Glu Glu Ala Lys Pro
 20

<210> 339
 <211> 18
 <212> PRT
 <213> Homo sapiens

<400> 339
 Lys Glu Leu Lys Ile Gln Ile Met His Ala Phe Ser Val Ala Pro Phe
 1 5 10 15
 Asp Gln

<210> 340
 <211> 58
 <212> PRT
 <213> Homo sapiens

<400> 340
 Phe Gln Asp Lys Asn Arg Pro Cys Leu Ser Asn Trp Pro Glu Asp Thr
 1 5 10 15
 Asp Val Leu Tyr Ile Val Ser Gln Phe Phe Val Glu Glu Trp Arg Lys
 20 25 30
 Phe Val Arg Lys Pro Thr Arg Cys Ser Pro Val Ser Ser Val Gly Asn
 35 40 45
 Ser Ala Leu Leu Cys Pro His Gly Gly Leu
 50 55

<210> 341
 <211> 42
 <212> PRT
 <213> Homo sapiens

<400> 341
 Met Phe Thr Phe Ala Ser Met Thr Lys Glu Asp Ser Lys Leu Ile Ala
 1 5 10 15
 Leu Ile Trp Pro Ser Glu Trp Gln Met Ile Gln Lys Leu Phe Val Val
 20 25 30
 Asp His Val Ile Lys Ile Thr Arg Ile Glu
 35 40

<210> 342
 <211> 42

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<210> 345
<211> 42
<212> PRT
<213> Homo sapiens

<400> 345
Ser Ala Asn Gln Thr Leu Lys Glu Leu Lys Ile Gln Ile Met His Ala
 1          5          10          15
Phe Ser Val Ala Pro Phe Asp Gln Asn Leu Ser Ile Asp Gly Lys Ile
          20          25          30

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<400> 347																
Phe	Gln	Asp	Lys	Asn	Arg	Pro	Cys	Leu	Ser	Asn	Trp	Pro	Glu	Asp	Thr	
1				5					10					15		
Asp	Val	Leu	Tyr	Ile	Val	Ser	Gln	Phe	Phe	Val	Glu	Glu	Trp	Arg	Lys	
			20					25					30			
Phe	Val	Arg	Lys	Pro	Thr	Arg	Cys	Ser	Pro	Val	Ser	Ser	Val	Gly	Asn	
		35					40					45				
Ser	Ala	Leu	Leu	Cys	Pro	His	Gly	Gly	Leu	Met	Phe	Thr	Phe	Ala	Ser	
	50					55					60					
Met	Thr	Lys	Glu	Asp	Ser	Lys	Leu	Ile	Ala	Leu	Ile	Trp	Pro	Ser	Glu	
65					70					75					80	
Trp	Gln	Met	Ile	Gln	Lys	Leu	Phe	Val	Val	Asp	His	Val	Ile	Lys	Ile	
				85					90					95		
Thr	Arg	Ile	Glu	Val	Gly	Asp	Val	Asn	Pro	Ser	Glu	Thr	Gln	Tyr	Ile	
			100					105					110			
Ser	Glu	Pro	Lys	Leu	Cys	Pro	Glu	Cys	Arg	Glu	Gly	Leu	Leu	Cys	Gln	
		115					120					125				
Gln	Gln	Arg	Asp	Leu	Arg	Glu	Tyr	Thr	Gln	Ala	Thr	Ile	Tyr	Val	His	
	130					135					140					
Lys	Val	Val	Asp	Asn	Lys	Lys	Val	Met	Lys	Asp	Ser	Ala	Pro	Glu	Leu	
145					150					155					160	
Asn	Val	Ser	Ser	Ser	Glu	Thr	Glu	Glu	Asp	Lys	Glu	Glu	Ala	Lys	Pro	
				165					170					175		

Asp Gly Glu Lys Asp Pro Asp Phe Asn Gln Ser Xaa Gly Gly Thr Lys
 180 185 190
 Arg Gln Lys Ile Ser His Gln Asn Tyr Ile Ala Tyr Gln Lys Gln Val
 195 200 205
 Ile Arg Arg Ser Met Arg His Arg Lys Val Arg Gly Glu Lys Ala Leu
 210 215 220
 Leu Val Ser Ala Asn Gln Thr Leu Lys Glu Leu Lys Ile Gln Ile Met
 225 230 235 240
 His Ala Phe Ser Val Ala Pro Phe Asp Gln Asn Leu Ser Ile Asp Gly
 245 250 255
 Lys Ile Leu Ser Asp Asp Cys Ala Thr Leu Gly Thr Leu Gly Val Ile
 260 265 270
 Pro Glu Ser Val Ile Leu Leu Lys Ala Asp Glu Pro Ile Ala Asp Tyr
 275 280 285
 Ala Ala Met Asp Asp Val Met Gln Val Cys Met Pro Glu Glu Gly Phe
 290 295 300
 Lys Gly Thr Gly Leu Leu Gly His
 305 310

<210> 348
 <211> 18
 <212> PRT
 <213> Homo sapiens

<400> 348
 Arg Gly Glu Arg Ser Glu Glu Leu Leu Gly Arg Glu Gly Leu Ser Gly
 1 5 10 15

Ser Gln

<210> 349
 <211> 179
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (119)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (123)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (177)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 349
 Ala Glu Ala Ala Glu Gly Glu Lys Gly Val Arg Ser Cys Trp Ala Glu
 1 5 10 15

Arg Asp Cys Pro Ala Pro Arg Cys Trp Ala Ser Trp Gly Ala Gln Pro
 20 25 30
 Ser Trp Asp Gly Ser Gln Val Leu Leu Trp Arg Ser Cys Cys Cys Cys
 35 40 45
 Cys Cys Trp Pro Pro Ala Phe Ser Thr Asp Gly Arg Thr Val Thr Trp
 50 55 60
 Arg Gly Thr Val Gln Leu Gln Gly Glu Thr Glu Ser Ala Gly Pro Ser
 65 70 75 80
 Leu Gly Pro Ser Gly Gly Gly Ala Thr Trp Glu Ser Phe Thr Ile Thr
 85 90 95
 Val Ile Leu Ala Thr Tyr Leu Met Cys Arg Met Trp Ala Ser Thr Thr
 100 105 110
 Thr Thr Thr Pro Ala Thr Xaa Leu Thr Thr Xaa Thr Thr Thr Thr Thr
 115 120 125
 Pro Thr Ala Thr Ile Pro Ala Thr Leu Ala Glu Ala Ala Val Ala Gly
 130 135 140
 Ala Cys Gly Gln Gln Leu Pro Leu Pro Ser His Leu Phe Pro Gly Gln
 145 150 155 160
 Val Asp Pro Met Phe Pro Cys Gly Arg Met His Leu Trp Gly Glu Arg
 165 170 175
 Xaa Glu Gln

<210> 350
 <211> 268
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (83)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (137)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (141)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 350
 Gly Gly Gln Asp Gly His Phe Thr Ser Thr Cys Val Leu Ala Leu Pro
 1 5 10 15
 Arg His Ala Cys His Phe Trp Gly Ser Leu Gly Val Thr Val Thr Arg
 20 25 30
 Arg Ala Val Gln Pro Arg Lys Ser Thr Leu Ala Leu His Ser Pro Asn
 35 40 45

Pro Ser Ala Leu Gln Thr Gln Cys Ser Ser Ile Leu Cys Cys His Ser
 50 55 60
 Thr Leu Gly His Ala Met Gln Met Gln Leu Glu Gln Ala Pro Val Tyr
 65 70 75 80
 Cys Ser Xaa Arg Ser Pro Gln Arg Cys Ile Leu Pro His Gly Asn Met
 85 90 95
 Gly Ser Thr Cys Pro Gly Asn Arg Trp Glu Gly Arg Gly Ser Cys Cys
 100 105 110
 Pro Gln Ala Pro Ala Thr Ala Ala Ser Ala Ser Val Ala Gly Met Val
 115 120 125
 Ala Val Gly Val Val Val Val Val Xaa Val Val Arg Xaa Val Ala Gly
 130 135 140
 Val Val Val Val Val Glu Ala His Ile Arg His Met Arg Tyr Val Ala
 145 150 155 160
 Arg Met Thr Val Met Val Lys Asp Ser Gln Val Ala Pro Pro Pro Glu
 165 170 175
 Gly Pro Arg Leu Gly Pro Ala Asp Ser Val Ser Pro Cys Ser Cys Thr
 180 185 190
 Val Pro Leu His Val Thr Val Leu Pro Ser Val Glu Lys Ala Gly Gly
 195 200 205
 Gln Gln Gln Gln Gln Gln Gln Asp Arg His Ser Ser Thr Cys Asp Pro
 210 215 220
 Ser His Glu Gly Cys Ala Pro Gln Glu Ala Gln His Leu Gly Ala Gly
 225 230 235 240
 Gln Ser Leu Ser Ala Gln Gln Leu Leu Thr Pro Phe Ser Pro Ser Ala
 245 250 255
 Ala Ser Ala Gln Pro Ser Gln Ser Leu Asn Phe Val
 260 265

<210> 351
 <211> 12
 <212> PRT
 <213> Homo sapiens

<400> 351
 Phe His Gly Leu Gly Arg Leu His Thr Val His Leu
 1 5 10

<210> 352
 <211> 21
 <212> PRT
 <213> Homo sapiens

<400> 352
 Ala Ala Phe Thr Gly Leu Ala Leu Leu Glu Gln Leu Asp Leu Ser Asp
 1 5 10 15

Asn Ala Gln Leu Arg
 20

<210> 353
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 353
 Ala Phe Arg Gly Leu His Ser Leu Asp
 1 5

<210> 354
 <211> 12
 <212> PRT
 <213> Homo sapiens

<400> 354
 His Glu Val Pro Asp Ala Pro Arg Pro Thr Pro Thr
 1 5 10

<210> 355
 <211> 101
 <212> PRT
 <213> Homo sapiens

<400> 355
 Met Val Val Ala Asp Arg Asn Arg Ala Ser Ser Ser Ser Tyr Leu Cys
 1 5 10 15
 Leu Leu Leu Phe Ser Leu Ser Leu Phe Leu Cys His Glu Thr Val Cys
 20 25 30
 Asp Arg Ala Thr Cys Leu Phe Phe Phe Leu Lys Phe Phe Phe Leu Phe
 35 40 45
 Met Cys Arg Cys Met Ser Trp Gly Phe Lys Asn Phe Lys Ala Gly Leu
 50 55 60
 Leu Met Gln Ser Met Pro Thr Ser Gly Ile Leu Arg Glu Arg Lys Arg
 65 70 75 80
 Leu His Val Val Arg Ile Pro Gln Gly Thr Glu Lys Lys Leu Glu Thr
 85 90 95
 Val Glu Met Gln Ile
 100

<210> 356
 <211> 12
 <212> PRT
 <213> Homo sapiens

<400> 356
 Ile Pro Gln Gly Thr Glu Lys Lys Leu Glu Thr Val
 1 5 10

<210> 357

<211> 37
 <212> PRT
 <213> Homo sapiens

<400> 357
 Asn Pro Arg Leu Pro Leu Pro Arg Gly Gly Ser Leu Arg Leu Leu Ser
 1 5 10 15
 Ser Pro Ala Asn Ser Asn Asn Ala Lys Ala Tyr Pro Phe Ser Arg Phe
 20 25 30
 Pro Ser Pro Ile Phe
 35

<210> 358
 <211> 48
 <212> PRT
 <213> Homo sapiens
 <400> 358
 Met Val Gln Glu Ala Pro Ala Leu Val Arg Leu Ser Leu Gly Ser His
 1 5 10 15
 Arg Val Lys Gly Pro Leu Pro Val Leu Lys Leu Gln Pro Glu Gly Trp
 20 25 30
 Ser Pro Ser Thr Leu Trp Ser Cys Ala Ser Val Trp Lys Asp Ser Cys
 35 40 45

<210> 359
 <211> 122
 <212> PRT
 <213> Homo sapiens
 <400> 359
 Ala Leu Ala Ser Ser Leu Val Ala Glu Asn Gln Gly Phe Val Ala Ala
 1 5 10 15
 Leu Met Val Gln Glu Ala Pro Ala Leu Val Arg Leu Ser Leu Gly Ser
 20 25 30
 His Arg Val Lys Gly Pro Leu Pro Val Leu Lys Leu Gln Pro Glu Gly
 35 40 45
 Trp Ser Pro Ser Thr Leu Trp Ser Cys Ala Ser Val Trp Lys Asp Ser
 50 55 60
 Cys Met His Pro Trp Arg Leu Ser Met Cys Pro Ala Cys Val Leu Ala
 65 70 75 80
 Ala Leu Pro Ala Leu Cys Ser Cys Leu Cys Ser Pro Asp Ala Arg Pro
 85 90 95
 Pro His Gly Trp Met Ser Met Pro Phe Thr Pro His Pro Leu Val Ser
 100 105 110
 Arg Ala Met Pro Thr Cys His Pro Cys Ser
 115 120

<210> 360
 <211> 33
 <212> PRT
 <213> Homo sapiens

<400> 360
 Phe Tyr Phe Ile Thr Leu Ile Phe Phe Leu Ala Trp Leu Val Lys Asn
 1 5 10 15
 Val Phe Ile Ala Val Ile Ile Glu Thr Phe Ala Glu Ile Arg Val Gln
 20 25 30

Phe

<210> 361
 <211> 15
 <212> PRT
 <213> Homo sapiens

<400> 361
 Ser Ile Phe Thr Val Tyr Glu Ala Ala Ser Gln Glu Gly Trp Val
 1 5 10 15

<210> 362
 <211> 21
 <212> PRT
 <213> Homo sapiens

<400> 362
 His Glu Gly Thr Ser Ile Phe Thr Val Tyr Glu Ala Ala Ser Gln Glu
 1 5 10 15
 Gly Trp Val Phe Leu
 20

<210> 363
 <211> 8
 <212> PRT
 <213> Homo sapiens

<400> 363
 Cys Lys Thr Ser Phe Gly Leu Ala
 1 5

<210> 364
 <211> 122
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (73)
 <223> Xaa equals any of the naturally occurring L-amino acids
 <400> 364

Met Ile Thr Leu Ser Ser Ala Phe Ser Ala Lys Gln Lys Thr His Ala
 1 5 10 15
 His Lys Asn Thr His Ala Cys Met Cys Ala Thr Asp Met Ala Asn Pro
 20 25 30
 Lys Leu Val Leu His Phe Glu Val Ile Val Ala Leu Leu Ser Leu Leu
 35 40 45
 Gln Thr Ile Leu Ser Leu Leu Leu Gly Gln Arg Thr Trp Leu Ala His
 50 55 60
 Leu Tyr Val Leu Ser Thr Glu Asn Xaa Ala Leu His Thr Val Gly Thr
 65 70 75 80
 Gln Lys His Leu Leu Pro His Asp Trp Cys Phe Gly Lys His Cys Val
 85 90 95
 Ser Cys Arg His His Ile Phe His Arg Phe Cys Ser Ile Phe Ser Ser
 100 105 110
 Thr Leu Lys Arg Ser Gln Gly Phe Glu Gly
 115 120

<210> 365
 <211> 13
 <212> PRT
 <213> Homo sapiens

<400> 365
 Cys Ala Ala Pro Gly Asn Lys Thr Ser His Leu Ala Ala
 1 5 10

<210> 366
 <211> 24
 <212> PRT
 <213> Homo sapiens

<400> 366
 Glu His Pro Leu Tyr Arg Ala Gly His Leu Ile Leu Gln Asp Arg Ala
 1 5 10 15

Ser Cys Leu Pro Ala Met Leu Leu
 20

<210> 367
 <211> 15
 <212> PRT
 <213> Homo sapiens

<400> 367
 Leu Leu Asp Pro Ser Cys Ser Gly Ser Gly Met Pro Ser Arg Gln
 1 5 10 15

<210> 368
 <211> 23
 <212> PRT
 <213> Homo sapiens

<400> 368

Tyr Ser Thr Cys Ser Leu Cys Gln Glu Glu Asn Glu Asp Val Val Arg
 1 5 10 15

Asp Ala Leu Gln Gln Asn Pro
 20

<210> 369

<211> 470

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (277)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (296)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (301)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (306)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (324)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (431)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 369

Ser Ala Thr Glu His Gly Ala Val Cys Cys Ser Cys Arg Arg Val Gly
 1 5 10 15

Arg Arg Gly Glu Pro Pro Gly Ser Ile Lys Gly Leu Val Tyr Ser Ser
 20 25 30

Asn Phe Gln Asn Val Lys Gln Leu Tyr Ala Leu Val Cys Glu Thr Gln
 35 40 45

Arg Tyr Ser Ala Val Leu Asp Ala Val Ile Ala Ser Ala Gly Leu Leu
 50 55 60

Arg Ala Glu Lys Lys Leu Arg Pro His Leu Ala Lys Val Leu Val Tyr
 65 70 75 80

Glu Leu Leu Leu Gly Lys Gly Phe Arg Gly Gly Gly Gly Arg Trp Lys
 85 90 95

Ala Leu Leu Gly Arg His Gln Ala Arg Leu Lys Ala Glu Leu Ala Arg
 100 105 110

Leu	Lys	Val	His	Arg	Gly	Val	Ser	Arg	Asn	Glu	Asp	Leu	Leu	Glu	Val
		115					120					125			
Gly	Ser	Arg	Pro	Gly	Pro	Ala	Ser	Gln	Leu	Pro	Arg	Phe	Val	Arg	Val
	130					135					140				
Asn	Thr	Leu	Lys	Thr	Cys	Ser	Asp	Asp	Val	Val	Asp	Tyr	Phe	Lys	Arg
145					150					155					160
Gln	Gly	Phe	Ser	Tyr	Gln	Gly	Arg	Ala	Ser	Ser	Leu	Asp	Asp	Leu	Arg
				165					170					175	
Ala	Leu	Lys	Gly	Lys	His	Phe	Leu	Leu	Asp	Pro	Leu	Met	Pro	Glu	Leu
			180					185					190		
Leu	Val	Phe	Pro	Ala	Gln	Thr	Asp	Leu	His	Glu	His	Pro	Leu	Tyr	Arg
		195					200					205			
Ala	Gly	His	Leu	Ile	Leu	Gln	Asp	Arg	Ala	Ser	Cys	Leu	Pro	Ala	Met
	210					215					220				
Leu	Leu	Asp	Pro	Pro	Pro	Gly	Ser	His	Val	Ile	Asp	Ala	Cys	Ala	Ala
225					230					235					240
Pro	Gly	Asn	Lys	Thr	Ser	His	Leu	Ala	Ala	Leu	Leu	Lys	Asn	Gln	Gly
				245					250					255	
Lys	Ile	Phe	Ala	Phe	Asp	Leu	Asp	Ala	Lys	Arg	Leu	Ala	Ser	Met	Ala
			260					265					270		
Thr	Leu	Leu	Ala	Xaa	Ala	Gly	Val	Ser	Cys	Cys	Glu	Leu	Ala	Glu	Glu
		275					280					285			
Asp	Phe	Leu	Ala	Val	Ser	Pro	Xaa	Asp	Pro	Arg	Tyr	Xaa	Glu	Val	His
	290					295					300				
Tyr	Xaa	Leu	Leu	Asp	Pro	Ser	Cys	Ser	Gly	Ser	Gly	Met	Pro	Ser	Arg
305					310					315					320
Gln	Leu	Glu	Xaa	Pro	Gly	Ala	Gly	Thr	Pro	Ser	Pro	Val	Arg	Leu	His
				325					330					335	
Ala	Leu	Ala	Gly	Phe	Gln	Gln	Arg	Ala	Leu	Cys	His	Ala	Leu	Thr	Phe
			340					345					350		
Pro	Ser	Leu	Gln	Arg	Leu	Val	Tyr	Ser	Thr	Cys	Ser	Leu	Cys	Gln	Glu
		355					360					365			
Glu	Asn	Glu	Asp	Val	Val	Arg	Asp	Ala	Leu	Gln	Gln	Asn	Pro	Gly	Ala
	370					375					380				
Phe	Arg	Leu	Ala	Pro	Ala	Leu	Pro	Ala	Trp	Pro	His	Arg	Gly	Leu	Ser
385					390					395					400
Thr	Phe	Pro	Gly	Ala	Glu	His	Cys	Leu	Arg	Ala	Ser	Pro	Glu	Thr	Thr
				405					410					415	
Leu	Ser	Ser	Gly	Phe	Phe	Val	Ala	Val	Ile	Glu	Arg	Val	Glu	Xaa	Pro
			420					425					430		
Ser	Ser	Ala	Ser	Gln	Ala	Lys	Ala	Ser	Ala	Pro	Glu	Arg	Thr	Pro	Ser
		435					440					445			
Pro	Ala	Pro	Lys	Arg	Lys	Lys	Arg	Gln	Gln	Arg	Ala	Ala	Ala	Gly	Ala
	450					455					460				

Cys Thr Pro Pro Cys Thr
465 470

<210> 370
<211> 429
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (236)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (255)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (260)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (265)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
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<222> (418)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 370
Tyr Glu Pro His Ser Thr His Ser Arg Glu Arg Ala Met Thr Ser His
1 5 10 15
Ala Arg Val Ser Leu Gly Pro Ser Arg Asp Pro Leu Glu Arg Pro His
20 25 30
Leu Ala Lys Val Leu Val Tyr Glu Leu Leu Gly Lys Gly Phe Arg
35 40 45
Gly Gly Gly Gly Arg Trp Lys Ala Leu Leu Gly Arg His Gln Ala Arg
50 55 60
Leu Lys Ala Glu Leu Ala Arg Leu Lys Val His Arg Gly Val Ser Arg
65 70 75 80
Asn Glu Asp Leu Leu Glu Val Gly Ser Arg Pro Gly Pro Ala Ser Gln
85 90 95
Leu Pro Arg Phe Val Arg Val Asn Thr Leu Lys Thr Cys Ser Asp Asp
100 105 110
Val Val Asp Tyr Phe Lys Arg Gln Gly Phe Ser Tyr Gln Gly Arg Ala
115 120 125
Ser Ser Leu Asp Asp Leu Arg Ala Leu Lys Gly Lys His Phe Leu Leu
130 135 140
Asp Pro Leu Met Pro Glu Leu Leu Val Phe Pro Ala Gln Thr Asp Leu
145 150 155 160

His Glu His Pro Leu Tyr Arg Ala Gly His Leu Ile Leu Gln Asp Arg
 165 170 175
 Ala Ser Cys Leu Pro Ala Met Leu Leu Asp Pro Pro Pro Gly Ser His
 180 185 190
 Val Ile Asp Ala Cys Ala Ala Pro Gly Asn Lys Thr Ser His Leu Ala
 195 200 205
 Ala Leu Leu Lys Asn Gln Gly Lys Ile Phe Ala Phe Asp Leu Asp Ala
 210 215 220
 Lys Arg Leu Ala Ser Met Ala Thr Leu Leu Ala Xaa Ala Gly Val Ser
 225 230 235 240
 Cys Cys Glu Leu Ala Glu Glu Asp Phe Leu Ala Val Ser Pro Xaa Asp
 245 250 255
 Pro Arg Tyr Xaa Glu Val His Tyr Xaa Leu Leu Asp Pro Ser Cys Ser
 260 265 270
 Gly Ser Gly Met Pro Ser Arg Gln Leu Glu Glu Pro Gly Ala Gly Thr
 275 280 285
 Pro Ser Pro Val Arg Leu His Ala Leu Ala Gly Phe Gln Gln Arg Ala
 290 295 300
 Leu Cys His Ala Leu Thr Phe Pro Ser Leu Gln Arg Leu Val Tyr Ser
 305 310 315 320
 Thr Cys Ser Leu Cys Gln Glu Glu Asn Glu Asp Val Val Arg Asp Ala
 325 330 335
 Leu Gln Gln Asn Pro Gly Ala Phe Arg Leu Ala Pro Ala Leu Pro Ala
 340 345 350
 Trp Pro His Arg Gly Leu Ser Thr Phe Pro Gly Ala Glu His Cys Leu
 355 360 365
 Arg Ala Ser Pro Glu Thr Thr Leu Ser Ser Gly Phe Phe Val Ala Val
 370 375 380
 Ile Glu Arg Val Glu Val Pro Ser Ser Ala Ser Gln Ala Lys Ala Ser
 385 390 395 400
 Ala Pro Glu Arg Thr Pro Ser Pro Ala Pro Lys Arg Lys Lys Arg Gln
 405 410 415
 Gln Xaa Ala Ala Ala Gly Ala Cys Thr Pro Pro Cys Thr
 420 425

<210> 371

<211> 245

<212> PRT

<213> Homo sapiens

<400> 371

Met Gly Thr His Ser Val Ser Gly Arg Phe Ser Lys Thr Ser Pro Pro
 1 5 10 15

Tyr Cys Pro Pro Ser Ser Ser Leu Pro Gly Pro Ile Ser Ser Ile Gly
 20 25 30

Phe Asn Lys Ser Leu His Glu Cys Leu Phe Ile Ser Glu Lys Glu Leu
 35 40 45
 Leu Pro Leu Pro Phe Pro Phe Pro Asp Leu Lys Ser Phe Ile Ser Tyr
 50 55 60
 Leu Thr Ser Met Leu Lys Pro Gly Pro Leu Ile Val Ser Leu Lys Ile
 65 70 75 80
 Trp Val Ser Tyr Pro Ile Thr Arg Pro Arg Tyr Leu Pro Pro Met Leu
 85 90 95
 Lys Ser Leu Asn Ile Ser Phe Leu Tyr Ile Gln Tyr Ile Trp Ala Tyr
 100 105 110
 Ile His Leu Tyr Thr Ser Phe Tyr Ile Tyr Ile Ile Ser Val Ser Phe
 115 120 125
 Phe Leu Asp Lys Pro Phe Ile Tyr Val Ile Ser Phe Pro Lys Pro Pro
 130 135 140
 His Phe Leu Phe Ala Ser Leu Ser Lys Thr Gln Glu Phe His Phe His
 145 150 155 160
 Val Pro Gln His His Phe Phe Leu Ile Phe Ser Pro Gln Val Ser Ser
 165 170 175
 Pro Ile Ser Cys Phe Ala Arg Leu Leu Lys Ser Pro Leu Phe Thr Pro
 180 185 190
 Val Pro Thr Glu Ile Ser Pro Phe Tyr Asn Cys Ala Tyr Tyr Ser Ala
 195 200 205
 Asp Ile Pro Ser Pro Gln Leu Val Trp Gly Pro Ile Ser His Gln Thr
 210 215 220
 Trp Leu Leu Leu Lys Leu Gly Leu Leu Pro Lys Arg Gly Phe Gln Val
 225 230 235 240
 Arg Gly Asp Arg Leu
 245

<210> 372
 <211> 29
 <212> PRT
 <213> Homo sapiens

<400> 372
 Cys Phe Ala Arg Leu Leu Lys Ser Pro Leu Phe Thr Pro Val Pro Thr
 1 5 10 15
 Glu Ile Ser Pro Phe Tyr Asn Cys Ala Tyr Tyr Ser Ala
 20 25

<210> 373
 <211> 111
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 373

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Asn Arg Glu Gln Lys Ala Lys Ser Gln Leu Leu Arg Ser Gln Leu Tyr
 1              5              10              15

Ser Thr Leu Asp Leu Pro Tyr Phe Phe Gln Cys Val Gly Thr Arg Cys
              20              25              30

Thr Ala Val Cys Val Cys Val Cys Val Cys Val Cys Val Cys Xaa Tyr
      35              40              45

Leu Pro Ile His Trp Gln Val Asn Leu His Leu Val Tyr Leu Ala Met
 50              55              60

Leu Cys Phe Leu Pro Ile Pro Leu Leu Ser Ile Leu Ser Pro Gln Thr
 65              70              75              80

Gln Ala Ser Arg Leu Leu Asp Glu Thr Val Arg Arg Lys His Phe Leu
              85              90              95

Thr Tyr Pro Phe Gly Ile Ser Ser Ile Ile Thr Gln Ala Leu Leu
      100              105              110

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<210> 374

<211> 51

<212> PRT

<213> Homo sapiens

<400> 374

```

Pro Gly Pro Glu Ala Gln Pro Trp Pro Gly Pro Asp Leu Pro Ala Val
 1              5              10              15

Gly Ser Arg Gly Pro Gly Arg Leu Leu Ala Ala Val Ser Ala Pro Arg
      20              25              30

Leu Gly Leu Gly Leu Ala Gly Ala Asp Pro Val Gly Pro Glu Ala Cys
 35              40              45

His Leu Pro
 50

```

<210> 375

<211> 42

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 375

```

Gly Arg Leu Arg Gly Pro Asp Glu Val Gly Ala Pro Phe His Pro Gly
 1              5              10              15

Pro Ala Thr Pro Gly Leu Ala Asp Pro Leu Arg Pro Ala Glu Pro Xaa
      20              25              30

His Trp Leu Pro Ser Leu Trp Gly Pro Thr
 35              40

```

<210> 376
 <211> 19
 <212> PRT
 <213> Homo sapiens

<400> 376
 Pro Gly Pro Glu Ala Gln Pro Trp Pro Gly Pro Asp Leu Pro Ala Val
 1 5 10 15

Gly Ser Arg

<210> 377
 <211> 19
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (15)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 377
 Ala Thr Pro Gly Leu Ala Asp Pro Leu Arg Pro Ala Glu Pro Xaa His
 1 5 10 15

Trp Leu Pro

<210> 378
 <211> 251
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (210)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (241)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 378
 Gln Trp Pro Glu Lys Asp Pro Val Met Ala Ala Ser Ser Ile Ser Ser
 1 5 10 15

Pro Trp Gly Lys His Val Phe Lys Ala Ile Leu Met Val Leu Val Ala
 20 25 30

Leu Ile Leu Leu His Ser Ala Leu Ala Gln Ser Arg Arg Asp Phe Ala
 35 40 45

Pro Pro Gly Gln Gln Lys Arg Glu Ala Pro Val Asp Val Leu Thr Gln
 50 55 60

Ile Gly Arg Ser Val Arg Gly Thr Leu Asp Ala Trp Ile Gly Pro Glu
 65 70 75 80

```

Thr Met His Leu Val Ser Glu Ser Ser Ser Gln Val Leu Trp Ala Ile
      85          90          95
Ser Ser Ala Ile Ser Val Ala Phe Phe Ala Leu Ser Gly Ile Ala Ala
      100          105          110
Gln Leu Leu Asn Ala Leu Gly Leu Ala Gly Asp Tyr Leu Ala Gln Gly
      115          120          125
Leu Lys Leu Ser Pro Gly Gln Val Gln Thr Phe Leu Leu Trp Gly Ala
      130          135          140
Gly Ala Leu Val Val Tyr Trp Leu Leu Ser Leu Leu Leu Gly Leu Val
      145          150          155          160
Leu Ala Leu Leu Gly Arg Ile Leu Trp Gly Leu Lys Leu Val Ile Phe
      165          170          175
Leu Ala Gly Phe Val Ala Leu Met Arg Ser Val Pro Asp Pro Ser Thr
      180          185          190
Arg Ala Leu Leu Leu Leu Ala Leu Leu Ile Leu Tyr Ala Leu Leu Ser
      195          200          205
Arg Xaa Thr Gly Ser Arg Ala Ser Gly Ala Gln Leu Glu Ala Lys Val
      210          215          220
Arg Gly Leu Glu Arg Gln Val Glu Glu Leu Arg Trp Arg Gln Arg Gln
      225          230          235          240
Xaa Ala Lys Gly Ala Arg Ser Val Glu Glu Glu
      245          250

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<210> 379

<211> 116

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 379

```

Glu Xaa Pro Arg Xaa Ile Xaa Gly Xaa Asn Ala Pro Gln Val Pro Val
  1          5          10          15

```

```

Arg Asn Ser Arg Val Asp Pro Arg Val Arg Pro Arg Val Arg Ser Leu
      20          25          30

```

Val Phe Val Leu Phe Cys Asp Glu Val Arg Gln Trp Tyr Val Asn Gly
 35 40 45

Val Asn Tyr Phe Thr Asp Leu Trp Asn Val Met Asp Thr Leu Gly Leu
 50 55 60

Phe Tyr Phe Ile Ala Gly Ile Val Phe Arg Leu His Ser Ser Asn Lys
 65 70 75 80

Ser Ser Leu Tyr Ser Gly Arg Val Ile Phe Cys Leu Asp Tyr Ile Ile
 85 90 95

Phe Thr Leu Arg Leu Ile His Ile Phe Thr Val Ser Arg Asn Leu Gly
 100 105 110

Pro Lys Ile Ile
 115

<210> 380
 <211> 12
 <212> PRT
 <213> Homo sapiens

<400> 380
 Asn Ile Leu Leu Val Asn Leu Leu Val Ala Met Phe
 1 5 10

<210> 381
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 381
 Gln Val Trp Lys Phe Gln Arg Tyr Phe Leu
 1 5 10

<210> 382
 <211> 316
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (2)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (5)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (7)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (126)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (127)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (143)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (166)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (176)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (200)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (294)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (296)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (306)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 382

Glu Xaa Pro Arg Xaa Ile Xaa Gly Xaa Asn Ala Pro Gln Val Pro Val
1 5 10 15

Arg Asn Ser Arg Val Asp Pro Arg Val Arg Pro Arg Val Arg Ser Leu
20 25 30

Val Phe Val Leu Phe Cys Asp Glu Val Arg Gln Trp Tyr Val Asn Gly
35 40 45

Val Asn Tyr Phe Thr Asp Leu Trp Asn Val Met Asp Thr Leu Gly Leu
50 55 60

Phe Tyr Phe Ile Ala Gly Ile Val Phe Arg Leu His Ser Ser Asn Lys
65 70 75 80

Ser Ser Leu Tyr Ser Gly Arg Val Ile Phe Cys Leu Asp Tyr Ile Ile
85 90 95

Phe Thr Leu Arg Leu Ile His Ile Phe Thr Val Ser Arg Asn Leu Gly
 100 105 110
 Pro Lys Ile Ile Met Leu Gln Arg Met Leu Ile Asp Val Xaa Xaa Phe
 115 120 125
 Leu Phe Leu Phe Ala Val Trp Met Val Ala Phe Gly Val Ala Xaa Gln
 130 135 140
 Gly Ile Leu Arg Gln Asn Glu Gln Arg Trp Arg Trp Ile Phe Arg Ser
 145 150 155 160
 Val Ile Tyr Glu Pro Xaa Leu Ala Met Phe Gly Gln Val Pro Ser Xaa
 165 170 175
 Val Asp Gly Thr Thr Tyr Asp Phe Ala His Cys Thr Phe Thr Gly Asn
 180 185 190
 Glu Ser Lys Pro Leu Cys Val Xaa Leu Asp Glu His Asn Leu Pro Arg
 195 200 205
 Phe Pro Glu Trp Ile Thr Ile Pro Leu Val Cys Ile Tyr Met Leu Ser
 210 215 220
 Thr Asn Ile Leu Leu Val Asn Leu Leu Val Ala Met Phe Gly Tyr Thr
 225 230 235 240
 Val Gly Thr Val Gln Glu Asn Asn Asp Gln Val Trp Lys Phe Gln Arg
 245 250 255
 Tyr Phe Leu Val Gln Glu Tyr Cys Ser Arg Leu Asn Ile Pro Phe Pro
 260 265 270
 Phe Ile Val Phe Ala Tyr Phe Tyr Met Val Val Lys Lys Cys Phe Lys
 275 280 285
 Cys Cys Cys Lys Glu Xaa Asn Xaa Glu Ser Ser Val Cys Cys Ser Lys
 290 295 300
 Met Xaa Thr Met Arg Leu Trp His Gly Arg Val Ser
 305 310 315

<210> 383

<211> 129

<212> PRT

<213> Homo sapiens

<400> 383

Met Glu Phe Gln Asn Met Tyr Ile Gln Leu Phe Gly Phe Ser Phe Phe
 1 5 10 15
 Ile Val Ile Ile Val Arg Met Leu Leu Leu Gly Leu Cys Val Ser Ala
 20 25 30
 Arg Gln Pro Val Met Pro Arg Ala Thr Leu Trp Gly His Leu Ser Pro
 35 40 45
 Ala Trp Val Leu Val Pro Trp Thr Pro Arg Ala Cys Gly Gln Ala Ala
 50 55 60
 Pro Gly Arg Gly His Val Ala Ser Asp His Lys Ser Gly Leu Pro Trp
 65 70 75 80
 Pro Lys His Cys Ser Cys Leu His Pro Arg Ala Ser Gln Pro Cys Leu

				85						90						95
Phe	Ser	Leu	Asn	Ser	Asn	Arg	Thr	Val	Phe	Thr	Ala	Ile	Gln	Arg	Val	
			100					105					110			
Ala	Leu	Gly	Trp	Thr	Phe	Trp	Val	Gln	Ala	Asn	Leu	Val	Pro	Arg	Cys	
		115					120					125				

Thr

<210> 384
 <211> 417
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (54)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (90)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (109)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (111)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (121)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (135)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (137)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (139)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (188)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (205)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (223)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (249)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (252)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (322)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (348)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (402)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 384

Leu	Leu	Leu	Cys	Val	Thr	Gly	Val	Tyr	Ser	Tyr	Gly	Leu	Met	His	Pro
1				5					10					15	

Ile	Pro	Ser	Ser	Phe	Met	Ile	Lys	Ala	Val	Ser	Ser	Phe	Leu	Thr	Ala
			20					25					30		

Glu	Glu	Ala	Ser	Val	Gly	Asn	Pro	Glu	Gly	Ala	Phe	Met	Lys	Val	Leu
		35					40					45			

Gln	Ala	Arg	Lys	Asn	Xaa	Thr	Ser	Thr	Glu	Leu	Ile	Val	Glu	Pro	Glu
	50					55					60				

Glu	Pro	Ser	Asp	Ser	Ser	Gly	Ile	Asn	Leu	Ser	Gly	Phe	Gly	Ser	Glu
65					70					75					80

Gln	Leu	Asp	Thr	Asn	Asp	Glu	Ser	Asp	Xaa	Ile	Ser	Thr	Leu	Ser	Tyr
				85					90					95	

Ile	Leu	Pro	Tyr	Phe	Ser	Ala	Val	Asn	Leu	Asp	Val	Xaa	Ser	Xaa	Leu
			100					105					110		

Leu	Pro	Phe	Ile	Lys	Leu	Pro	Thr	Xaa	Gly	Asn	Ser	Leu	Ala	Lys	Ile
		115					120						125		

Gln	Thr	Val	Gly	Gln	Asn	Xaa	Gln	Xaa	Val	Xaa	Arg	Val	Leu	Met	Gly
	130					135					140				

Pro	Arg	Ser	Ile	Gln	Lys	Arg	His	Phe	Lys	Glu	Val	Gly	Arg	Gln	Ser
145					150					155					160

Ile	Arg	Arg	Glu	Gln	Gly	Ala	Gln	Ala	Ser	Val	Glu	Asn	Ala	Ala	Glu
				165					170						175

Glu Lys Arg Leu Gly Ser Pro Ala Pro Arg Glu Xaa Glu Gln Pro His
 180 185 190
 Thr Gln Gln Gly Pro Glu Lys Leu Ala Gly Asn Ala Xaa Tyr Thr Lys
 195 200 205
 Pro Ser Phe Thr Gln Glu His Lys Ala Ala Val Ser Val Leu Xaa Pro
 210 215 220
 Phe Ser Lys Gly Ala Pro Ser Thr Ser Ser Pro Ala Lys Ala Leu Pro
 225 230 235 240
 Gln Val Arg Asp Arg Trp Lys Asp Xaa Thr His Xaa Ile Ser Ile Leu
 245 250 255
 Glu Ser Ala Lys Ala Arg Val Thr Asn Met Lys Ala Ser Lys Pro Ile
 260 265 270
 Ser His Ser Arg Lys Lys Tyr Arg Phe His Lys Thr Arg Ser Arg Met
 275 280 285
 Thr His Arg Thr Pro Lys Val Lys Lys Ser Pro Lys Phe Arg Lys Lys
 290 295 300
 Ser Tyr Leu Ser Arg Leu Met Leu Ala Asn Arg Pro Pro Phe Ser Ala
 305 310 315 320
 Ala Xaa Ser Leu Ile Asn Ser Pro Ser Gln Gly Ala Phe Ser Ser Leu
 325 330 335
 Gly Asp Leu Ser Pro Gln Glu Asn Pro Phe Leu Xaa Val Ser Ala Pro
 340 345 350
 Ser Glu His Phe Ile Glu Thr Thr Asn Ile Lys Asp Thr Thr Ala Arg
 355 360 365
 Asn Ala Leu Glu Glu Asn Val Phe Met Glu Asn Thr Asn Met Pro Glu
 370 375 380
 Val Thr Ile Ser Glu Asn Thr Asn Tyr Asn His Pro Pro Glu Ala Asp
 385 390 395 400
 Ser Xaa Gly Thr Ala Phe Asn Leu Gly Pro Thr Val Lys Gln Thr Glu
 405 410 415

Thr

<210> 385

<211> 94

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 385

Cys Phe Ser Asn Ala Pro Lys Val Ser Asp Glu Ala Val Lys Lys Asp
 1 5 10 15

Ser Glu Leu Asp Lys His Leu Glu Ser Arg Val Glu Glu Ile Met Glu
 20 25 30

Lys Ser Gly Glu Glu Gly Met Pro Asp Leu Ala His Val Met Arg Ile
 35 40 45
 Leu Ser Ala Glu Asn Ile Pro Asn Leu Pro Pro Gly Gly Gly Leu Ala
 50 55 60
 Gly Xaa Arg Asn Val Ile Glu Ala Val Tyr Ser Arg Leu Asn Pro His
 65 70 75 80
 Arg Glu Ser Asp Gly Gly Ala Gly Asp Leu Glu Asp Pro Trp
 85 90

<210> 386
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 386
 Cys Phe Ser Asn Ala Pro Lys Val Ser Asp Glu Ala Val Lys Lys Asp
 1 5 10 15
 Ser Glu Leu Asp Lys His Leu Glu Ser Arg Val Glu Glu Ile Met Glu
 20 25 30
 Lys Ser Gly Glu Glu Gly Met Pro Asp Leu Ala His Val Met Arg Ile
 35 40 45
 Leu Ser Ala Glu Asn Ile Pro Asn
 50 55

<210> 387
 <211> 26
 <212> PRT
 <213> Homo sapiens

<400> 387
 Arg Asn Val Ile Glu Ala Val Tyr Ser Arg Leu Asn Pro His Arg Glu
 1 5 10 15
 Ser Asp Gly Gly Ala Gly Asp Leu Glu Asp
 20 25

<210> 388
 <211> 16
 <212> PRT
 <213> Homo sapiens

<400> 388
 Asp Ser Glu Leu Asp Lys His Leu Glu Ser Arg Val Glu Glu Ile Met
 1 5 10 15

<210> 389
 <211> 24
 <212> PRT

<213> Homo sapiens

<400> 389

Lys Ser Gly Glu Glu Gly Met Pro Asp Leu Ala His Val Met Arg Ile
1 5 10 15

Leu Ser Ala Glu Asn Ile Pro Asn
20

<210> 390

<211> 9

<212> PRT

<213> Homo sapiens

<400> 390

Cys Phe Ser Asn Ala Pro Lys Val Ser
1 5

<210> 391

<211> 69

<212> PRT

<213> Homo sapiens

<400> 391

Met Ser Arg Lys Ser Leu Ala Phe Pro Ile Ile Cys Ser Tyr Leu Cys
1 5 10 15

Phe Leu Thr Val Ala Thr Cys Ser Ile Ala Cys Thr Thr Val Phe Phe
20 25 30

Ala Asn Leu Arg His Thr Arg Tyr Ile Cys Ile Glu Leu Ser Ala Leu
35 40 45

Glu Thr Ser Gly Val Ile Ser Pro Gln Ile Asn Asn Val Pro Glu Val
50 55 60

His Gly Lys Tyr Ser
65

<210> 392

<211> 16

<212> PRT

<213> Homo sapiens

<400> 392

Ile Gln Lys Met Thr Arg Val Arg Val Val Asp Asn Ser Ala Leu Gly
1 5 10 15

<210> 393

<211> 14

<212> PRT

<213> Homo sapiens

<400> 393

Pro Arg Cys Ile His Val Tyr Lys Lys Asn Gly Val Gly Lys

200

1

5

10

<210> 394

<211> 15

<212> PRT

<213> Homo sapiens

<400> 394

Gly Asp Gln Ile Leu Leu Ala Ile Lys Gly Gln Lys Lys Lys Ala
1 5 10 15

<210> 395

<211> 15

<212> PRT

<213> Homo sapiens

<400> 395

Asn Pro Val Gly Thr Arg Ile Lys Thr Pro Ile Pro Thr Ser Leu
1 5 10 15

<210> 396

<211> 171

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 396

Val Leu Ile Pro Ser Phe Ser Ser Ser Phe Leu Cys Ser Arg Gly Gly
1 5 10 15

Pro Leu Pro Xaa Asp Leu Ser Trp Asp Pro Met Ala Phe Phe Thr Gly
20 25 30

Leu Trp Gly Pro Phe Thr Cys Val Ser Arg Val Leu Ser His His Cys
35 40 45

Phe Ser Thr Thr Gly Ser Leu Ser Ala Ile Gln Lys Met Thr Arg Val
50 55 60

Arg Val Val Asp Asn Ser Ala Leu Gly Asn Ser Pro Tyr His Arg Ala
65 70 75 80

Pro Arg Cys Ile His Val Tyr Lys Lys Asn Gly Val Gly Lys Val Gly
85 90 95

Asp Gln Ile Leu Leu Ala Ile Lys Gly Gln Lys Lys Lys Ala Leu Ile
100 105 110

Val Gly His Cys Met Pro Gly Pro Arg Met Thr Pro Arg Phe Asp Ser
115 120 125

Asn Asn Val Val Leu Ile Glu Asp Asn Gly Asn Pro Val Gly Thr Arg
130 135 140

Ile Lys Thr Pro Ile Pro Thr Ser Leu Arg Lys Arg Glu Gly Glu Tyr
145 150 155 160

Ser Lys Val Leu Ala Ile Ala Gln Asn Phe Val
 165 170

<210> 397
 <211> 171
 <212> PRT
 <213> Homo sapiens

<400> 397
 Ala Arg Val Val Gln Pro Ala Ala Arg Ala Gly Met Trp Ala Gly Gly
 1 5 10 15
 Arg Ser Ser Cys Gln Ala Glu Val Leu Arg Ala Thr Arg Gly Gly Ala
 20 25 30
 Ala Arg Gly Asn Ala Ala Pro Gly Arg Ala Leu Glu Met Val Pro Gly
 35 40 45
 Ala Ala Gly Trp Cys Cys Leu Val Leu Trp Leu Pro Ala Cys Val Ala
 50 55 60
 Ala His Gly Phe Arg Ile His Asp Tyr Leu Tyr Phe Gln Val Leu Ser
 65 70 75 80
 Pro Gly Asp Ile Arg Tyr Ile Phe Thr Ala Thr Pro Ala Lys Asp Phe
 85 90 95
 Gly Gly Ile Phe His Thr Arg Tyr Glu Gln Ile His Leu Val Pro Ala
 100 105 110
 Glu Pro Pro Glu Ala Cys Gly Glu Leu Ser Asn Gly Phe Phe Ile Gln
 115 120 125
 Asp Gln Ile Ala Leu Val Glu Arg Gly Gly Cys Ser Phe Leu Ser Lys
 130 135 140
 Thr Arg Val Val Gln Glu His Gly Gly Arg Ala Val Ile Ile Ser Asp
 145 150 155 160
 Asn Ala Leu Thr Met Thr Ala Ser Thr Trp Arg
 165 170

<210> 398
 <211> 188
 <212> PRT
 <213> Homo sapiens

<400> 398
 Met Val Pro Gly Ala Ala Gly Trp Cys Cys Leu Val Leu Trp Leu Pro
 1 5 10 15
 Ala Cys Val Ala Ala His Gly Phe Arg Ile His Asp Tyr Leu Tyr Phe
 20 25 30
 Gln Val Leu Ser Pro Gly Asp Ile Arg Tyr Ile Phe Thr Ala Thr Pro
 35 40 45
 Ala Lys Asp Phe Gly Gly Ile Phe His Thr Arg Tyr Glu Gln Ile His
 50 55 60
 Leu Val Pro Ala Glu Pro Pro Glu Ala Cys Gly Glu Leu Ser Asn Gly

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<210> 399
<211> 70
<212> PRT
<213> Homo sapiens

<400> 399
Val  Asp  Asn  Asp  Ser  Phe  Tyr  Val  Glu  Met  Ile  Gln  Asp  Ser  Thr  Gln
   1                                10                                15

Arg  Thr  Ala  Asp  Ile  Pro  Ala  Leu  Phe  Leu  Leu  Gly  Arg  Asp  Gly  Tyr
          20                                25                                30

Met  Ile  Arg  Arg  Ser  Leu  Glu  Gln  His  Gly  Leu  Pro  Trp  Ala  Ile  Ile
          35                                40                                45

Ser  Ile  Pro  Val  Asn  Val  Thr  Ser  Ile  Pro  Thr  Phe  Glu  Leu  Leu  Gln
          50                                55                                60

Pro  Pro  Trp  Thr  Phe  Trp
   65                                70

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<210> 400
<211> 187
<212> PRT
<213> Homo sapiens

<400> 400
Ile Ala Thr Ala Ala Leu Phe Phe Phe Phe Tyr Cys Gln Val Ala Gly
  1              5              10
Phe Ile Gly Lys Gly Gln Ser Leu Arg Ser Trp Val Pro Gln Arg Leu
          20          25          30
Leu Gly Leu Glu Pro Gln Leu Gln Pro Met Gln Gln Ser Arg Leu Leu
      35          40          45
Leu Pro Phe Leu Phe Phe Leu Leu Glu Gly Cys Ala Pro Ser Ser Leu
    50          55          60

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Gly Pro Gly Ala Ala Pro Gly Ser Gly His Ser Leu Gly Pro Pro Gly
 65 70 75 80
 Ser Pro Gly Ala Pro Gly Pro Gln Pro Ala Val Gly Pro Ser Ser Pro
 85 90 95
 Cys Gln Pro Gly Pro Ser Pro Ser Ser Pro Ala Ala Ala Ala Ala Ser
 100 105 110
 Ser Gln Ser Ser Val Ala Ser Trp Pro Cys Thr Leu Arg Cys Ala Ala
 115 120 125
 Pro Ser Pro Asp Ala Ser Ala Leu Arg Pro Ala Ala Ser Pro Ala Ala
 130 135 140
 Thr Pro Ala Trp Ser Pro Gly Ser Gly Thr Ile Arg Val Leu Arg Pro
 145 150 155 160
 Pro Ala Pro Ala Ala Ala Pro Ala Thr Ala Ile Thr Asn Arg Gly Pro
 165 170 175
 Pro Arg Arg Arg Arg Arg Asn Ala Arg Thr Ala
 180 185

<210> 401
 <211> 194
 <212> PRT
 <213> Homo sapiens

<400> 401
 Glu Arg Pro Pro Pro Arg Arg Thr Gly Thr Pro Val Ala Arg Pro Arg
 1 5 10 15
 Gly Pro Pro Asp Pro Ala Val Ala Ala Gly Thr Ala Leu Arg Ala Lys
 20 25 30
 Gln Phe Ala Arg Tyr Gly Ala Ala Ser Gly Val Val Pro Gly Ser Leu
 35 40 45
 Trp Pro Ser Pro Glu Gln Leu Arg Glu Leu Glu Ala Glu Glu Arg Glu
 50 55 60
 Trp Tyr Pro Ser Leu Ala Thr Met Gln Glu Ser Leu Arg Val Lys Gln
 65 70 75 80
 Leu Ala Glu Glu Gln Lys Arg Arg Glu Arg Glu Gln His Ile Ala Glu
 85 90 95
 Cys Met Ala Lys Met Pro Gln Met Ile Val Asn Trp Gln Gln Gln Gln
 100 105 110
 Arg Glu Asn Trp Glu Lys Ala Gln Ala Asp Lys Glu Arg Arg Ala Arg
 115 120 125
 Leu Gln Ala Glu Ala Gln Glu Leu Leu Gly Tyr Gln Val Asp Pro Arg
 130 135 140
 Ser Ala Arg Phe Gln Glu Leu Leu Gln Asp Leu Glu Lys Lys Glu Arg
 145 150 155 160
 Asn Pro Gln Gly Gly Lys Thr Glu Thr Glu Glu Gly Gly Ala Thr Ala
 165 170 175
 Ala Leu Ala Ala Ala Val Ala Gln Asp Pro Ala Ala Ser Gly Ala Pro

180

185

190

Ser Ser

<210> 402
 <211> 124
 <212> PRT
 <213> Homo sapiens

<400> 402
 Met Gln Glu Ser Leu Arg Val Lys Gln Leu Ala Glu Glu Gln Lys Arg
 1 5 10 15
 Arg Glu Arg Glu Gln His Ile Ala Glu Cys Met Ala Lys Met Pro Gln
 20 25 30
 Met Ile Val Asn Trp Gln Gln Gln Gln Arg Glu Asn Trp Glu Lys Ala
 35 40 45
 Gln Ala Asp Lys Glu Arg Arg Ala Arg Leu Gln Ala Glu Ala Gln Glu
 50 55 60
 Leu Leu Gly Tyr Gln Val Asp Pro Arg Ser Ala Arg Phe Gln Glu Leu
 65 70 75 80
 Leu Gln Asp Leu Glu Lys Lys Glu Arg Lys Arg Leu Lys Glu Glu Lys
 85 90 95
 Gln Lys Arg Lys Lys Glu Ala Arg Ala Ala Ala Leu Ala Ala Ala Val
 100 105 110
 Ala Gln Asp Pro Ala Ala Ser Gly Ala Pro Ser Ser
 115 120

<210> 403
 <211> 113
 <212> PRT
 <213> Homo sapiens

<400> 403
 Tyr Gln Ser Leu Ala Glu Thr Gln Gln Lys Lys Glu Asn Phe Arg Pro
 1 5 10 15
 Ile Ser Leu Lys Asn Thr Asp Ala Lys Ile Leu Asn Lys Ile Leu Ala
 20 25 30
 Asn Gln Ile Gln Gln His Ile Lys Lys Leu Ile His Asn Asp Arg Val
 35 40 45
 Gly Phe Ile Pro Glu Met Gln Gly Trp Phe Asn Ile Cys Lys Ser Ile
 50 55 60
 Asn Ile Val His His Ile Asn Arg Thr Lys Asp Lys Asn His Met Ile
 65 70 75 80
 Ile Ser Ile Asp Ala Glu Lys Ala Phe Asp Lys Ile Arg Gln Ser Phe
 85 90 95
 Met Leu Lys Thr Leu Asn Lys Leu Gly Ile His Gly Met Tyr Leu Gly
 100 105 110

Arg

<210> 404
 <211> 101
 <212> PRT
 <213> Homo sapiens

<400> 404
 Lys Lys Glu Asn Phe Arg Pro Ile Ser Leu Lys Asn Thr Asp Ala Lys
 1 5 10 15
 Ile Leu Asn Lys Ile Leu Ala Asn Gln Ile Gln Gln His Ile Lys Lys
 20 25 30
 Leu Ile His Asn Asp Arg Val Gly Phe Ile Pro Glu Met Gln Gly Trp
 35 40 45
 Phe Asn Ile Cys Lys Ser Ile Asn Ile Val His His Ile Asn Arg Thr
 50 55 60
 Lys Asp Lys Asn His Met Ile Ile Ser Ile Asp Ala Glu Lys Ala Phe
 65 70 75 80
 Asp Lys Ile Arg Gln Ser Phe Met Leu Lys Thr Leu Asn Lys Leu Gly
 85 90 95
 Ile His Gly Met Tyr
 100

<210> 405
 <211> 11
 <212> PRT
 <213> Homo sapiens

<400> 405
 Asp Ala Lys Ile Leu Asn Lys Ile Leu Ala Asn
 1 5 10

<210> 406
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 406
 Ile Gln Gln His Ile Lys Lys Leu Ile His
 1 5 10

<210> 407
 <211> 19
 <212> PRT
 <213> Homo sapiens

<400> 407
 Lys Asp Lys Asn His Met Ile Ile Ser Ile Asp Ala Glu Lys Ala Phe
 1 5 10 15

Asp Lys Ile

<210> 408
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 408
 Met Leu Lys Thr Leu Asn Lys Leu Gly Ile
 1 5 10

<210> 409
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 409
 Lys Lys Glu Asn Phe Arg Pro Ile Ser Leu
 1 5 10

<210> 410
 <211> 85
 <212> PRT
 <213> Homo sapiens

<400> 410
 Trp Thr Met Phe Ile Asp Leu His Met Leu Asn Gln Pro Cys Ile Ser
 1 5 10 15
 Gly Met Lys Pro Thr Arg Ser Leu Trp Ile Ser Phe Leu Met Cys Cys
 20 25 30
 Trp Ile Trp Phe Ala Asn Ile Leu Leu Arg Ile Phe Ala Ser Val Phe
 35 40 45
 Phe Arg Asp Ile Gly Leu Lys Phe Ser Phe Phe Cys Cys Val Ser Ala
 50 55 60
 Arg Leu Trp Tyr Gln Asp Asp Ala Gly Leu Ile Asn Glu Leu Gly Arg
 65 70 75 80
 Ile Pro Ser Phe Tyr
 85

<210> 411
 <211> 72
 <212> PRT
 <213> Homo sapiens

<400> 411
 Glu Arg Pro Glu Glu Gly Thr Glu Pro Ser Pro Ser Pro Val Ala Glu
 1 5 10 15
 Gln Ala Ser Val Ser Met Thr Pro Val Phe Arg Ala Trp Gly Leu Trp
 20 25 30
 Val Tyr Val Leu Pro Thr Gly Phe Pro Gly Pro Cys Cys Met Met Leu
 35 40 45

Leu Glu Leu Phe Pro Lys Glu Ser Val Pro Gln Ala Tyr Gln Gly Ile
 50 55 60

Leu Leu Tyr Leu His Phe Gly Phe
 65 70

<210> 412

<211> 123

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (106)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 412

Arg Gly Glu Val Pro His Gln Pro His Pro Thr Arg Arg Thr Val Val
 1 5 10 15

Ser Gly Gln Ala Pro Trp Xaa Pro Gly Pro Xaa Ala Leu Gly Gln Xaa
 20 25 30

Val Glu Thr Ala Ala Gly Met Gly Met Pro Leu Val Thr Val Thr Ala
 35 40 45

Ala Thr Phe Pro Thr Leu Ser Cys Pro Pro Arg Ala Trp Pro Glu Val
 50 55 60

Glu Ala Pro Glu Ala Pro Ala Leu Pro Val Val Pro Glu Leu Pro Glu
 65 70 75 80

Val Pro Met Glu Met Pro Leu Val Leu Pro Pro Glu Leu Glu Leu Leu
 85 90 95

Ser Leu Glu Ala Val His Arg Tyr Gln Xaa Gly Gly Thr Leu Met Gly
 100 105 110

Trp Thr Arg Ala Glu Ala Ser Ala Asn Gly Ser
 115 120

<210> 413

<211> 133

<212> PRT

<213> Homo sapiens

<400> 413

Met Val Leu Asp Pro Tyr Arg Ala Val Ala Leu Glu Leu Gln Ala Asn
 1 5 10 15

Arg Glu Pro Asp Phe Ser Ser Leu Val Ser Pro Leu Ser Pro Arg Arg
 20 25 30

Met Ala Ala Arg Val Phe Tyr Leu Leu Leu Gly Glu Cys Met His Val
 35 40 45

Cys Val Cys Met Trp Gly Arg Asp Thr Glu Thr Arg Gly Pro Tyr Arg
 50 55 60

Asp Ser Pro Asp Leu Pro Ser Pro Arg Leu Leu Thr Ser Ala Leu Ser
 65 70 75 80

Ala Thr Asp Ser Ser Arg Glu Thr Arg Lys Ala Ile Trp Ser Pro Pro
 85 90 95

Asp Pro Ala Gly Ala Gln Ile Pro Leu Arg Leu Glu Ser Ile Tyr Lys
 100 105 110

Ala Ala Arg Lys Pro Ala Thr Ser Ser Lys Pro Arg Arg Ala Ser Leu
 115 120 125

Lys Lys Lys Lys Lys
 130

<210> 414

<211> 11

<212> PRT

<213> Homo sapiens

<400> 414

Ala Phe Arg Asn Leu Pro Asn Leu Arg Ile Leu
 1 5 10

<210> 415

<211> 13

<212> PRT

<213> Homo sapiens

<400> 415

Ala Phe Gln Gly Leu Phe His Leu Phe Glu Leu Arg Leu
 1 5 10

<210> 416

<211> 206

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 416

Asn Lys Xaa Ile Leu Glu Val Pro Ser Ala Arg Thr Thr Arg Ile Met
 1 5 10 15

Gly Asp His Leu Asp Leu Leu Leu Gly Val Val Leu Met Ala Gly Pro
 20 25 30
 Val Phe Gly Ile Pro Ser Cys Ser Phe Asp Gly Arg Ile Ala Phe Tyr
 35 40 45
 Arg Phe Cys Asn Leu Thr Gln Val Pro Gln Val Leu Asn Thr Thr Glu
 50 55 60
 Arg Leu Leu Leu Ser Phe Asn Tyr Ile Arg Thr Val Thr Ala Ser Ser
 65 70 75 80
 Phe Pro Phe Leu Glu Gln Leu Gln Leu Leu Glu Leu Gly Ser Gln Tyr
 85 90 95
 Thr Pro Leu Thr Ile Asp Lys Glu Ala Phe Arg Asn Leu Pro Asn Leu
 100 105 110
 Arg Ile Leu Asp Leu Gly Ser Ser Lys Ile Tyr Phe Leu His Pro Asp
 115 120 125
 Ala Phe Gln Gly Leu Phe His Leu Phe Glu Leu Arg Leu Tyr Phe Cys
 130 135 140
 Gly Leu Ser Asp Ala Val Leu Lys Asp Gly Tyr Phe Arg Asn Leu Lys
 145 150 155 160
 Ala Leu Thr Arg Leu Asp Leu Ser Lys Asn Gln Ile Arg Ser Leu Tyr
 165 170 175
 Leu His Pro Ser Phe Gly Lys Leu Asn Ser Leu Lys Ser Ile Asp Phe
 180 185 190
 Ser Ser Asn Gln Ile Phe Leu Val Cys Glu His Glu Leu Glu
 195 200 205

<210> 417

<211> 261

<212> PRT

<213> Homo sapiens

<400> 417

Ala His Ala Ala Leu Gln Leu Ser Leu Arg Thr Cys Gly Pro Cys Ser
 1 5 10 15
 Ser Pro Tyr Pro His Ala Gly Leu Ala Ala Leu Leu Thr His Met Trp
 20 25 30
 Ala Leu Gln Leu Ser Leu Pro Thr Cys Gly Leu Ala Ala Leu Leu Thr
 35 40 45
 His Met Arg Pro Cys Ser Ser Pro Tyr Pro His Ala Gly Leu Ala Ala
 50 55 60
 Leu Leu Thr His Met Gly Pro Cys Arg Ser Pro Tyr Pro His Gly Gly
 65 70 75 80
 Leu Ala Ala Val Leu Thr His Met Arg Ala Leu Gln Leu Ser Leu Pro
 85 90 95
 Thr Trp Gly Leu Ala Ala Leu Leu Thr His Met Arg Pro Cys Ser Ser
 100 105 110
 Pro Tyr Pro His Ala Gly Leu Ala Cys Cys Trp Leu Trp Ser Leu Ser

115	120	125
Ser His Arg Ser Leu Gln Val Gln Ala Thr His Arg Leu Val Val Arg		
130	135	140
Thr Ile Lys Asp Arg Val Met Leu Lys Val Leu Pro Gln Thr Arg Arg		
145	150	155
Arg Gly Pro Phe Leu Ser Ser Cys Arg Asn Asp Val Met Arg Asn Cys		
165	170	175
Val Pro Arg His Ala Val Leu Val Thr Thr Cys Val Phe Val Ser Phe		
180	185	190
Pro Thr His Cys Lys Val Gly Ile Thr Gly Pro Ile Thr Gln Val Lys		
195	200	205
Gln Lys Pro Gly Asn His Ser Ser Pro Cys Pro Val Ile Gln Leu Val		
210	215	220
Ala Lys Ala Glu Phe Glu Leu Met Leu Pro Ser Val Pro Lys Pro Val		
225	230	235
Tyr Leu Thr Leu Val Leu Ser Cys Trp Cys Leu Cys Asp Val Pro Cys		
245	250	255
Leu Ser Val Ser Leu		
260		

<210> 418
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 418
 Leu Ala Cys Cys Trp Leu Trp Ser Leu Ser Ser His Arg Ser Leu Gln
 1 5 10 15
 Val

<210> 419
 <211> 59
 <212> PRT
 <213> Homo sapiens

<400> 419
 Glu Ile Gly Ser His Ser Val Ala Gln Ala Gly Leu Glu Leu Pro Gly
 1 5 10 15
 Ser Ser Asp Pro Pro Thr Ser Gly Ser Gln Ser Ala Gly Ile Thr Gly
 20 25 30
 Val Ser Gln Gly Thr Gln Pro Ser Val Asp Leu Cys Gln Glu Glu Pro
 35 40 45
 Ala Gly Ala Asp Gln Pro His Gly Ser Leu Gln
 50 55

<210> 420

<211> 67
 <212> PRT
 <213> Homo sapiens

<400> 420
 Met Gly Glu Ala Ser Pro Pro Ala Pro Ala Arg Arg His Leu Leu Val
 1 5 10 15
 Leu Leu Leu Leu Leu Ser Thr Leu Val Ile Pro Ser Ala Ala Ala Pro
 20 25 30
 Ile His Asp Ala Asp Ala Gln Glu Ser Ser Leu Gly Leu Thr Gly Leu
 35 40 45
 Gln Ser Leu Leu Gln Gly Phe Ser Arg Leu Phe Leu Lys Val Thr Cys
 50 55 60
 Phe Gly Ala
 65

<210> 421
 <211> 90
 <212> PRT
 <213> Homo sapiens

<400> 421
 Met Leu Val Val Ser Thr Val Ile Ile Val Phe Trp Glu Phe Ile Asn
 1 5 10 15
 Ser Thr Glu Gly Ser Phe Leu Trp Ile Tyr His Ser Lys Asn Pro Glu
 20 25 30
 Val Asp Asp Ser Ser Ala Gln Lys Gly Trp Trp Phe Leu Ser Trp Phe
 35 40 45
 Asn Asn Gly Ile His Asn Tyr Gln Gln Gly Glu Glu Asp Ile Asp Lys
 50 55 60
 Glu Lys Gly Arg Glu Glu Thr Lys Gly Arg Lys Met Thr Gln Gln Ser
 65 70 75 80
 Phe Gly Tyr Gly Thr Gly Leu Ile Gln Thr
 85 90

<210> 422
 <211> 18
 <212> PRT
 <213> Homo sapiens

<400> 422
 Phe Pro Gly Arg Thr His Ala Ser Gly Asn Val Lys Gly Lys Val Ile
 1 5 10 15
 Leu Ser

<210> 423
 <211> 106
 <212> PRT
 <213> Homo sapiens

<400> 423

Ala Asp Gln Glu Lys Ile Arg Asn Val Lys Gly Lys Val Ile Leu Ser
 1 5 10 15
 Met Leu Val Val Ser Thr Val Ile Ile Val Phe Trp Glu Phe Ile Asn
 20 25 30
 Ser Thr Glu Gly Ser Phe Leu Trp Ile Tyr His Ser Lys Asn Pro Glu
 35 40 45
 Val Asp Asp Ser Ser Ala Gln Lys Gly Trp Trp Phe Leu Ser Trp Phe
 50 55 60
 Asn Asn Gly Ile His Asn Tyr Gln Gln Gly Glu Glu Asp Ile Asp Lys
 65 70 75 80
 Glu Lys Gly Arg Glu Glu Thr Lys Gly Arg Lys Met Thr Gln Gln Ser
 85 90 95
 Phe Gly Tyr Gly Thr Gly Leu Ile Gln Thr
 100 105

<210> 424

<211> 236

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 424

Met Gln Ser Pro Leu Val Glu Cys Pro Pro Pro Ser Ile His Tyr Trp
 1 5 10 15
 Pro Ser Val Pro Ala Gly Ala Gln Gly Ala Cys Ser Pro Met Phe His
 20 25 30
 Ala Ala Gly Trp Ser Arg Ser Gln Pro Asn Gly Glu Ile Pro Ala Ser
 35 40 45
 Ser Xaa Gly His Leu Ser Ile Gln Arg Ala Ala Leu Val Val Leu Glu
 50 55 60
 Asn Tyr Tyr Lys Asp Phe Thr Ile Tyr Asn Pro Asn Leu Leu Thr Ala
 65 70 75 80
 Ser Lys Phe Arg Ala Ala Lys His Met Ala Gly Leu Lys Val Tyr Asn
 85 90 95
 Val Asp Gly Pro Ser Asn Asn Ala Thr Gly Gln Ser Arg Ala Met Ile
 100 105 110
 Ala Ala Ala Ala Arg Arg Arg Asp Ser Ser His Asn Glu Leu Tyr Tyr
 115 120 125
 Glu Glu Ala Glu His Glu Arg Arg Val Lys Lys Arg Lys Ala Arg Leu
 130 135 140
 Val Val Ala Val Glu Glu Ala Phe Ile His Ile Gln Arg Leu Gln Ala
 145 150 155 160

Glu Glu Gln Gln Lys Ala Pro Gly Glu Val Met Asp Pro Arg Glu Ala
 165 170 175

Ala Gln Ala Ile Phe Pro Ser Met Ala Arg Ala Leu Gln Lys Tyr Leu
 180 185 190

Arg Ile Thr Arg Gln Gln Asn Tyr His Ser Met Glu Ser Ile Leu Gln
 195 200 205

Ala Pro Gly Leu Leu His His Gln Arg His Asp Pro Gln Gly Leu Pro
 210 215 220

Arg Thr Val Pro Gln Cys Gly Pro His Pro Ala Ile
 225 230 235

<210> 425

<211> 23

<212> PRT

<213> Homo sapiens

<400> 425

Leu Ser Ile Gln Arg Ala Ala Leu Val Val Leu Glu Asn Tyr Tyr Lys
 1 5 10 15

Asp Phe Thr Ile Tyr Asn Pro
 20

<210> 426

<211> 15

<212> PRT

<213> Homo sapiens

<400> 426

Asp Ser Ser His Asn Glu Leu Tyr Tyr Glu Glu Ala Glu His Glu
 1 5 10 15

<210> 427

<211> 18

<212> PRT

<213> Homo sapiens

<400> 427

Phe Pro Ser Met Ala Arg Ala Leu Gln Lys Tyr Leu Arg Ile Thr Arg
 1 5 10 15

Gln Gln

<210> 428

<211> 140

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (117)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 428

Met Ala Phe Lys Leu Leu Ile Leu Leu Ile Gly Thr Trp Ala Leu Phe
 1 5 10 15
 Phe Arg Lys Arg Arg Ala Asp Met Pro Arg Val Phe Val Phe Arg Ala
 20 25 30
 Leu Leu Leu Val Leu Ile Phe Leu Phe Cys Gly Phe Pro Ile Gly Phe
 35 40 45
 Phe Thr Gly Ser Ala Phe Trp Thr Leu Gly Asn Arg Asn Tyr Gln Gly
 50 55 60
 Ile Val Gln Tyr Ala Val Ser Pro Cys Gly Met Pro Ser Ser Phe His
 65 70 75 80
 Pro Leu Leu Ala Ile Arg Pro Cys Trp Ser Ser Gly Ser Leu Gln Pro
 85 90 95
 Asn Val Pro Arg Cys Arg Leu Val Pro Leu Pro Thr Glu Trp Gly Asn
 100 105 110
 Pro Arg Phe Gln Xaa Gly Thr Pro Glu Tyr Pro Ala Ser Ser Ile Gly
 115 120 125
 Gly Pro Arg Lys Leu Leu Gln Arg Phe His His Leu
 130 135 140

<210> 429

<211> 49

<212> PRT

<213> Homo sapiens

<400> 429

Met Gln Ser Pro Leu Trp Met Pro Ser Ser Ser Ser Ile Thr Trp Pro
 1 5 10 15
 Ser Ser Cys Trp Ser Ser Gly Ser Cys Ser Pro Cys Ser Arg Cys Arg
 20 25 30
 Trp Ser Arg Ser Thr Asp Gly Glu Ser Arg Phe Tyr Ser Leu Gly His
 35 40 45
 Leu

<210> 430

<211> 303

<212> PRT

<213> Homo sapiens

<400> 430

Met Gln Ser Pro Leu Trp Met Pro Ser Ser Ser Ser Ile Thr Trp Pro
 1 5 10 15
 Ser Ser Cys Trp Ser Ser Gly Ser Cys Ser Pro Cys Ser Arg Cys Arg
 20 25 30
 Trp Ser Arg Ser Thr Asp Gly Glu Ser Arg Phe Tyr Ser Leu Gly His
 35 40 45
 Leu Ser Ile Gln Arg Ala Ala Leu Val Val Leu Glu Asn Tyr Tyr Lys

50					55					60					
Asp 65	Phe	Thr	Ile	Tyr	Asn 70	Pro	Asn	Leu	Leu	Thr 75	Ala	Ser	Lys	Phe	Arg 80
Ala	Ala	Lys	His	Met 85	Ala	Gly	Leu	Lys	Val 90	Tyr	Asn	Val	Asp	Gly 95	Pro
Ser	Asn	Asn	Ala 100	Thr	Gly	Gln	Ser	Arg 105	Ala	Met	Ile	Ala	Ala 110	Ala	Ala
Arg	Arg	Arg 115	Asp	Ser	Ser	His	Asn 120	Glu	Leu	Tyr	Tyr	Glu 125	Glu	Ala	Glu
His 130	Glu	Arg	Arg	Val	Lys	Lys 135	Arg	Lys	Ala	Arg	Leu 140	Val	Val	Ala	Val
Glu 145	Glu	Ala	Phe	Ile	His 150	Ile	Gln	Arg	Leu	Gln 155	Ala	Glu	Glu	Gln	Gln 160
Lys	Ala	Pro	Gly	Glu 165	Val	Met	Asp	Pro	Arg 170	Glu	Ala	Ala	Gln	Ala	Ile 175
Phe	Pro	Ser	Met 180	Ala	Arg	Ala	Leu	Gln 185	Lys	Tyr	Leu	Arg	Ile 190	Thr	Arg
Gln	Gln	Asn 195	Tyr	His	Ser	Met	Glu 200	Ser	Ile	Leu	Gln	His 205	Leu	Ala	Phe
Cys 210	Ile	Thr	Asn	Gly	Met	Thr 215	Pro	Lys	Ala	Phe	Leu 220	Glu	Arg	Tyr	Leu
Ser 225	Ala	Gly	Pro	Thr	Leu 230	Gln	Tyr	Asp	Lys	Asp 235	Arg	Trp	Leu	Ser	Thr 240
Gln	Trp	Arg	Leu	Val 245	Ser	Asp	Glu	Ala	Leu 250	Thr	Asn	Gly	Leu	Arg 255	Asp
Gly	Ile	Val 260	Phe	Val	Leu	Lys	Cys 265	Leu	Asp	Phe	Ser	Leu	Val 270	Val	Asn
Val	Lys	Lys 275	Ile	Pro	Phe	Ile	Ile 280	Leu	Ser	Glu	Glu	Phe 285	Ile	Asp	Pro
Lys 290	Ser	His	Lys	Phe	Val	Leu 295	Arg	Leu	Gln	Ser	Glu 300	Thr	Ser	Val	

<210> 431

<211> 92

<212> PRT

<213> Homo sapiens

<400> 431

Met 1	Pro	Arg	Val	Phe 5	Val	Phe	Arg	Ala	Leu 10	Leu	Leu	Val	Leu	Ile 15	Phe
Leu	Phe	Val	Val 20	Ser	Tyr	Trp	Leu	Phe 25	Tyr	Gly	Val	Arg	Ile 30	Leu	Asp
Ser	Arg	Asp 35	Arg	Asn	Tyr	Gln	Gly 40	Ile	Val	Gln	Tyr	Ala 45	Val	Ser	Leu
Val	Asp 50	Ala	Leu	Leu	Phe	Ile 55	His	Tyr	Leu	Ala	Ile 60	Val	Leu	Leu	Glu

Leu Arg Gln Leu Gln Pro Met Phe Thr Leu Gln Val Val Arg Ser Thr
65 70 75 80

Asp Gly Glu Ser Arg Phe Tyr Ser Leu Gly His Leu
85 90

<210> 432

<211> 114

<212> PRT

<213> Homo sapiens

<400> 432

Met Ala Phe Lys Leu Leu Ile Leu Leu Ile Gly Thr Trp Ala Leu Phe
1 5 10 15

Phe Arg Lys Arg Arg Ala Asp Met Pro Arg Val Phe Val Phe Arg Ala
20 25 30

Leu Leu Leu Val Leu Ile Phe Leu Phe Val Val Ser Tyr Trp Leu Phe
35 40 45

Tyr Gly Val Arg Ile Leu Asp Ser Arg Asp Arg Asn Tyr Gln Gly Ile
50 55 60

Val Gln Tyr Ala Val Ser Leu Val Asp Ala Leu Leu Phe Ile His Tyr
65 70 75 80

Leu Ala Ile Val Leu Leu Glu Leu Arg Gln Leu Gln Pro Met Phe Thr
85 90 95

Leu Gln Val Val Arg Ser Thr Asp Gly Glu Ser Arg Phe Tyr Ser Leu
100 105 110

Gly His

<210> 433

<211> 37

<212> PRT

<213> Homo sapiens

<400> 433

Met Gly Leu Pro Val Ser Trp Ala Pro Pro Ala Leu Trp Val Leu Gly
1 5 10 15

Cys Cys Ala Leu Leu Ser Leu Trp Ala Leu Cys Thr Ala Cys Arg
20 25 30

Ser Pro Arg Thr Leu
35

<210> 434

<211> 20

<212> PRT

<213> Homo sapiens

<400> 434

Ile Tyr Gly Lys Thr Gly Gln Pro Asp Lys Ile Tyr Val Glu Leu His
1 5 10 15

Gln Asn Ser Pro
20

<210> 435
<211> 16
<212> PRT
<213> Homo sapiens

<400> 435
Phe Leu Glu Pro Leu Ser Gly Leu Tyr Thr Cys Thr Leu Ser Tyr Lys
1 5 10 15

<210> 436
<211> 16
<212> PRT
<213> Homo sapiens

<400> 436
Leu Gln Val Val Arg Leu Asp Ser Cys Arg Pro Gly Phe Gly Lys Asn
1 5 10 15

<210> 437
<211> 12
<212> PRT
<213> Homo sapiens

<400> 437
Cys Val Ser Val Leu Thr Tyr Gly Ala Lys Ser Cys
1 5 10

<210> 438
<211> 26
<212> PRT
<213> Homo sapiens

<400> 438
Lys Asn Asn Trp Trp Gln Gly Val Val Val Leu Ala Cys Asn Pro Ser
1 5 10 15

Thr Leu Gly Asp Arg Gly Ser Trp Ile Thr
20 25

<210> 439
<211> 17
<212> PRT
<213> Homo sapiens

<400> 439
Gly Gln Glu Phe Glu Thr Arg Leu Thr Asn Ile Val Lys Leu Arg Leu

1 5 10 15
Tyr

<210> 440
<211> 24
<212> PRT
<213> Homo sapiens

<400> 440
Ser Cys Leu Gly Leu Pro Lys Cys Trp Asp Tyr Arg Gln Glu Pro Pro
1 5 10 15
His Pro Ala Thr Ser Tyr Phe Leu
20

<210> 441
<211> 308
<212> PRT
<213> Homo sapiens

<400> 441
Pro Ala Lys Gly Glu Gly Cys Arg Arg Leu His Asp His Pro His Ile
1 5 10 15
Trp Arg Leu Leu Trp Ala His Ser Asp Pro Asp Pro Leu Pro Thr Gln
20 25 30
Pro Arg Ala Glu Gln Gly Glu Thr Glu Phe Cys Val Pro Val Gly Pro
35 40 45
Leu Cys His Asp Trp His Pro Leu Pro Val Asp Val Leu Ala Gln Leu
50 55 60
Gln Leu Ser His Ile Leu Pro Trp Gly Gln Pro Ala Pro Ser Arg His
65 70 75 80
Gln His Leu Leu Leu Gly Ser Leu Arg Ala Tyr Leu Gly Gly Asn
85 90 95
Ile Gln Cys Pro Ala Lys Lys Gly Lys Leu Asp Met Val His Ile Gln
100 105 110
Asn Ala Thr Leu Ala Gly Gly Val Ala Val Gly Thr Ala Ala Glu Met
115 120 125
Met Leu Met Pro Tyr Gly Ala Leu Ile Ile Gly Phe Val Cys Gly Ile
130 135 140
Ile Ser Thr Leu Gly Phe Val Tyr Leu Thr Pro Phe Leu Glu Ser Arg
145 150 155 160
Leu His Ile Gln Asp Thr Cys Gly Ile Asn Asn Leu His Gly Ile Pro
165 170 175
Gly Ile Ile Gly Gly Ile Val Gly Ala Val Thr Ala Ala Ser Ala Ser
180 185 190
Leu Glu Val Tyr Gly Lys Glu Gly Leu Val His Ser Phe Asp Phe Gln
195 200 205

Gly Phe Asn Gly Asp Trp Thr Ala Arg Thr Gln Gly Lys Phe Gln Ile
 210 215 220
 Tyr Gly Leu Leu Val Thr Leu Ala Met Ala Leu Met Gly Gly Ile Ile
 225 230 235 240
 Val Gly Leu Ile Leu Arg Leu Pro Phe Trp Gly Gln Pro Ser Asp Glu
 245 250 255
 Asn Cys Phe Glu Asp Ala Val Tyr Trp Glu Met Pro Glu Gly Asn Ser
 260 265 270
 Thr Val Tyr Ile Pro Glu Asp Pro Thr Phe Lys Pro Ser Gly Pro Ser
 275 280 285
 Val Pro Ser Val Pro Met Val Ser Pro Leu Pro Met Ala Ser Ser Val
 290 295 300
 Pro Leu Val Pro
 305

<210> 442

<211> 145

<212> PRT

<213> Homo sapiens

<400> 442

Met Thr Phe Phe Gln Val Thr Leu Phe Ala Val Asn Glu Phe Ile Leu
 1 5 10 15
 Leu Asn Leu Leu Lys Val Lys Asp Ala Gly Gly Ser Met Thr Ile His
 20 25 30
 Thr Phe Gly Ala Tyr Phe Gly Leu Thr Val Thr Arg Ile Leu Tyr Arg
 35 40 45
 Arg Asn Leu Glu Gln Ser Lys Glu Arg Gln Asn Ser Val Tyr Gln Ser
 50 55 60
 Asp Leu Phe Ala Met Ile Gly Thr Leu Phe Leu Trp Met Tyr Trp Pro
 65 70 75 80
 Ser Phe Asn Ser Ala Ile Ser Tyr His Gly Asp Ser Gln His Arg Ala
 85 90 95
 Ala Ile Asn Thr Tyr Cys Ser Leu Ala Ala Cys Val Leu Thr Ser Val
 100 105 110
 Ala Ile Ser Ser Ala Leu His Lys Lys Gly Lys Leu Asp Met Val His
 115 120 125
 Ile Gln Asn Ala Thr Leu Ala Gly Gly Val Ala Val Gly Thr Ala Ala
 130 135 140
 Glu
 145

<210> 443

<211> 108

<212> PRT

<213> Homo sapiens

<400> 443

Pro Arg Val Arg Thr Arg Ala Pro Val Val Pro Pro Ala Gly His Arg
1 5 10 15

Ala Leu Ser Pro Ala Gly Val Leu Leu Ala Val Pro Ala Met Leu Ser
20 25 30

Leu Asp Phe Leu Asp Asp Val Arg Arg Met Asn Lys Arg Gln Val Ser
35 40 45

Leu Ser Val Leu Phe Phe Ser Trp Leu Phe Leu Ser Leu Arg Gly Cys
50 55 60

Cys Cys Gly Ala Arg Arg Thr Pro Gly Phe Trp Cys Glu Gly Leu Ser
65 70 75 80

Trp Ser Asp Thr Arg Val Ile Arg Phe Leu Trp Arg Leu Trp Pro Glu
85 90 95

Ala Ala Leu Ser Ala Ser Leu Phe Leu Thr Pro Asn
100 105

<210> 444

<211> 84

<212> PRT

<213> Homo sapiens

<400> 444

Met Cys Val Tyr Ile Tyr Val Tyr Thr Cys Met Cys Val Tyr Ile Tyr
1 5 10 15

Val Tyr Ile Cys Ile Cys Val Tyr Ile His Val Tyr Thr Cys Ile Cys
20 25 30

Val Tyr Ile His Val Tyr Thr Cys Val Cys Val Tyr Ile Tyr Val Tyr
35 40 45

Thr Cys Met Cys Val Tyr Ile Cys Ile Tyr Val Tyr Ile Tyr Ile Cys
50 55 60

Val Cys Val Ser Val Tyr Ile Tyr Asn Arg Ile Ile Tyr Ile Leu Leu
65 70 75 80

Ala Leu Ser Leu

<210> 445

<211> 16

<212> PRT

<213> Homo sapiens

<400> 445

His Ala Ser Ala Trp Asn Leu Ile Leu Leu Thr Val Phe Thr Leu Ser
1 5 10 15

<210> 446

<211> 24

<212> PRT
 <213> Homo sapiens

<400> 446
 Val Tyr Ala Ala Leu Gly Ala Gly Val Phe Thr Leu Phe Leu Ala Leu
 1 5 10 15
 Asp Thr Gln Leu Leu Met Gly Asn
 20

<210> 447
 <211> 18
 <212> PRT
 <213> Homo sapiens

<400> 447
 Glu Glu Tyr Ile Phe Gly Ala Leu Asn Ile Tyr Leu Asp Ile Ile Tyr
 1 5 10 15
 Ile Phe

<210> 448
 <211> 26
 <212> PRT
 <213> Homo sapiens

<400> 448
 Trp Asn Leu Ile Leu Leu Thr Val Phe Thr Leu Ser Met Ala Tyr Leu
 1 5 10 15
 Thr Gly Met Leu Ser Ser Tyr Tyr Asn Thr
 20 25

<210> 449
 <211> 138
 <212> PRT
 <213> Homo sapiens

<400> 449
 Met Ala Tyr Leu Thr Gly Met Leu Ser Ser Tyr Tyr Asn Thr Thr Ser
 1 5 10 15
 Val Leu Leu Cys Leu Gly Ile Thr Ala Leu Val Cys Leu Ser Val Thr
 20 25 30
 Val Phe Ser Phe Gln Thr Lys Phe Asp Phe Thr Ser Cys Gln Gly Val
 35 40 45
 Leu Phe Val Leu Leu Met Thr Leu Phe Phe Ser Gly Leu Ile Leu Ala
 50 55 60
 Ile Leu Leu Pro Phe Gln Tyr Val Pro Trp Leu His Ala Val Tyr Ala
 65 70 75 80
 Ala Leu Gly Ala Gly Val Phe Thr Leu Phe Leu Ala Leu Asp Thr Gln
 85 90 95
 Leu Leu Met Gly Asn Arg Arg His Ser Leu Ser Pro Glu Glu Tyr Ile
 100 105 110

Phe Gly Ala Leu Asn Ile Tyr Leu Asp Ile Ile Tyr Ile Phe Thr Phe
 115 120 125

Phe Leu Gln Leu Phe Gly Thr Asn Arg Glu
 130 135

<210> 450

<211> 11

<212> PRT

<213> Homo sapiens

<400> 450

Thr Leu Ser Leu Leu Val Ser Leu His Thr Val
 1 5 10

<210> 451

<211> 241

<212> PRT

<213> Homo sapiens

<400> 451

Met Ser Ser Ser Gly Thr Ser Asp Ala Ser Pro Ser Gly Ser Pro Val
 1 5 10 15

Leu Ala Ser Tyr Lys Pro Ala Pro Pro Lys Asp Lys Leu Pro Glu Thr
 20 25 30

Pro Arg Arg Arg Met Lys Lys Ser Leu Ser Ala Pro Leu His Pro Glu
 35 40 45

Phe Glu Glu Val Tyr Arg Phe Gly Ala Glu Ser Arg Lys Leu Leu Leu
 50 55 60

Arg Glu Pro Val Asp Ala Met Pro Asp Pro Thr Pro Phe Leu Leu Ala
 65 70 75 80

Arg Glu Ser Ala Glu Val His Leu Ile Lys Glu Arg Pro Leu Val Ile
 85 90 95

Pro Pro Ile Ala Ser Asp Arg Ser Gly Glu Gln His Ser Pro Ala Arg
 100 105 110

Glu Lys Pro His Lys Ala His Val Gly Val Ala His Arg Ile His His
 115 120 125

Ala Thr Pro Pro Gln Pro Ala Arg Gly Glu Asp Pro Gly Gly Arg Pro
 130 135 140

Gly Glu Arg Arg Gln Gly Gly Glu Glu Ala Leu Arg Asp Gly Gln Asn
 145 150 155 160

Cys Val Lys Pro Ala Val Pro His Pro Ala Leu Ser Met His Cys Glu
 165 170 175

His His Trp Glu Ile Ser Ala Thr Pro Phe Leu Phe Asn Pro Met His
 180 185 190

Ala Lys His Phe Ser His Leu Pro Thr His Ser Pro Ser Ala Ser Leu
 195 200 205

Ala Leu Phe Phe Thr Pro Lys Tyr Asp Arg Val Pro Ala Ala Glu Tyr

210 215 220
 Val Phe Pro Asn Cys Cys Gly Gln Thr Pro Val Cys Arg Ile Ala Cys
 225 230 235 240

Phe

<210> 452
 <211> 85
 <212> PRT
 <213> Homo sapiens

<400> 452
 Met Ser Ser Ser Gly Thr Ser Asp Ala Ser Pro Ser Gly Ser Pro Val
 1 5 10 15
 Leu Ala Ser Tyr Lys Pro Ala Pro Pro Lys Asp Lys Leu Pro Glu Thr
 20 25 30
 Pro Arg Arg Arg Met Lys Lys Ser Leu Ser Ala Pro Leu His Pro Glu
 35 40 45
 Phe Glu Glu Val Tyr Arg Phe Gly Ala Glu Ser Arg Lys Leu Leu Leu
 50 55 60
 Arg Glu Pro Val Asp Ala Met Pro Asp Pro Thr Pro Phe Leu Leu Ala
 65 70 75 80
 Arg Glu Ser Ala Glu
 85

<210> 453
 <211> 63
 <212> PRT
 <213> Homo sapiens

<400> 453
 Val His Leu Ile Lys Glu Arg Pro Leu Val Ile Pro Pro Ile Ala Ser
 1 5 10 15
 Asp Arg Ser Gly Glu Gln His Ser Pro Ala Arg Glu Lys Pro His Lys
 20 25 30
 Ala His Val Gly Val Ala His Arg Ile His His Ala Thr Pro Pro Gln
 35 40 45
 Pro Ala Arg Gly Glu Asp Pro Gly Gly Arg Pro Gly Glu Arg Arg
 50 55 60

<210> 454
 <211> 93
 <212> PRT
 <213> Homo sapiens

<400> 454
 Gln Gly Gly Glu Glu Ala Leu Arg Asp Gly Gln Asn Cys Val Lys Pro
 1 5 10 15
 Ala Val Pro His Pro Ala Leu Ser Met His Cys Glu His His Trp Glu

	20		25		30	
Ile	Ser	Ala	Thr	Pro	Phe	Leu
	35				Phe	Asn
					Pro	Met
					His	Ala
					Lys	His
					Phe	
Ser	His	Leu	Pro	Thr	His	Ser
50					55	Pro
					Ser	Ala
					Ser	Leu
					60	Ala
					Leu	Phe
					Phe	
Thr	Pro	Lys	Tyr	Asp	Arg	Val
65					70	Pro
					Ala	Ala
					Glu	Tyr
					75	Val
					Phe	Pro
					Asn	80
Cys	Cys	Gly	Gln	Thr	Pro	Val
				85	Cys	Arg
					Ile	Ala
					90	Cys
					Phe	

<210> 455

<211> 59

<212> PRT

<213> Homo sapiens

<400> 455

Lys	Arg	Ala	Ser	Gln	Pro	Pro	Cys	Thr	Arg	Asn	Leu	Lys	Arg	Ser	Thr
1				5					10					15	

Asp	Ser	Gly	Gln	Arg	Ala	Gly	Asn	Ser	Phe	Cys	Gly	Asn	Gln	Trp	Met
			20					25					30		

Leu	Cys	Pro	Thr	Pro	Pro	His	Phe	Cys	Trp	Leu	Gly	Ser	Pro	Pro	Arg
		35					40					45			

Ser	Thr	Ser	Ser	Lys	Arg	Gly	Pro	Ser	Ser	Ser
	50					55				

<210> 456

<211> 65

<212> PRT

<213> Homo sapiens

<400> 456

Pro	Pro	Ser	Pro	Pro	Thr	Glu	Ala	Ala	Ser	Ser	Thr	Ala	Arg	Pro	Ala
1				5					10					15	

Lys	Ser	Arg	Thr	Arg	Pro	Thr	Ser	Gly	Trp	His	Ile	Gly	Ser	Thr	Thr
			20					25					30		

Pro	Pro	Arg	Arg	Ser	Gln	Pro	Glu	Val	Lys	Thr	Leu	Ala	Val	Asp	Gln
		35					40					45			

Val	Asn	Gly	Gly	Lys	Val	Val	Arg	Lys	His	Ser	Gly	Thr	Asp	Arg	Thr
	50					55					60				

Val
65

<210> 457

<211> 148

<212> PRT

<213> Homo sapiens

<400> 457

Met Trp Asn Pro Asn Ala Gly Gln Pro Gly Pro Asn Pro Tyr Pro Pro

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<210> 458
<211> 58
<212> PRT
<213> Homo sapiens
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<400> 458
Arg Val Gly Pro Asp Ala Trp Ala Asp Ala Trp Glu Gln Ala Gln Ala
1 5 10 15
Ala Val Glu Arg Leu Glu Asp Thr Pro Lys His Val Glu Ser Gln Cys
20 25 30
Arg Ala Ala Arg Ala Lys Ser Ile Ser Pro Gln Tyr Trp Val Pro Trp
35 40 45
Arg Phe Gln Ser Cys Pro Pro Thr Thr Tyr
50 55

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<210> 459
<211> 84
<212> PRT
<213> Homo sapiens
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<400> 459
Ser Thr Leu Ser Pro Arg Pro Leu Ser Ser Ser Pro Arg Ser Ser Pro
1 5 10 15
Trp Gln Ser Ser Phe Pro Pro Arg Trp Ala Pro Ser Ser Cys Ala Thr
20 25 30
Ala Arg Val Ser Arg Met Pro Thr Val Gly Ser Leu Pro Ser Ser Ile
35 40 45

Pro Thr Ala Cys Pro Trp Asn Pro Ser Cys Glu Ser Leu Gly Ser Trp
 50 55 60
 His Gly Trp Thr Ser Ser Asp Ser Arg Gln Glu Asp Ala Glu Glu Asn
 65 70 75 80
 Glu Glu Ser Ser

<210> 460
 <211> 86
 <212> PRT
 <213> Homo sapiens

<400> 460
 Met Pro Gly Ser Gln Gly Gln Ile His Ile Pro Pro Ile Leu Gly Ala
 1 5 10 15
 Leu Glu Val Pro Ile Leu Pro Thr His His Leu Leu Ile His Pro Phe
 20 25 30
 Pro Gln Ala Pro Val Leu Leu Pro Gln Glu Leu Pro Met Ala Ile Gln
 35 40 45
 Leu Ser Pro Gln Val Gly Pro Leu Ile Leu Cys His Ser Gln Gly Ile
 50 55 60
 Gln Asp Ala Asn Arg Trp Val Pro Thr Leu Leu His Thr His Arg Leu
 65 70 75 80
 Pro Leu Glu Ser Leu Leu
 85

<210> 461
 <211> 65
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (56)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 461
 Met Ala Ser Ile Pro Pro Leu Pro Pro Pro Leu Pro Ala Val Ile Leu
 1 5 10 15
 Thr Glu Tyr Arg Pro Trp Thr Leu Pro Ser Ser Leu Thr Ser Ser Ala
 20 25 30
 Leu Pro Ser Ser Phe Arg Cys His Val Val Leu Gly Glu Cys Ser Pro
 35 40 45
 Cys Ala Pro His Pro Leu Pro Xaa Pro Glu Pro His Pro Ala Val Glu
 50 55 60
 Pro
 65

<210> 462

<211> 147
 <212> PRT
 <213> Homo sapiens

<400> 462

Pro Arg His Thr Tyr Trp Gly Ile Trp Leu Val Pro Ala Ala Met Ala
 1 5 10 15
 Ser Pro His Ser His Pro Ala Gln Gly Val Leu Gln Pro Pro Gly Pro
 20 25 30
 Gln Pro Arg Trp Glu Asp Arg Val Ala Leu Gly Thr Arg Gly Arg Ser
 35 40 45
 Pro Gly Ala Tyr Leu Thr Glu Ser Ala Pro Gln Gln Ala Ser Thr Thr
 50 55 60
 Pro Gly Pro Pro Thr Cys His Gly Lys Val Gly Ser Glu Trp Ala Trp
 65 70 75 80
 Leu Gly Ala Ala Pro Gly Pro Leu Pro Thr His Pro Ser His Tyr Ala
 85 90 95
 Ile Arg Val Pro Ser Asn Ile Cys Ser Cys Pro Gly Ala Ser Ser Ala
 100 105 110
 Pro Ala Leu Arg Gly Val Val Arg Gln Pro Pro Gly Pro Gln Asn Pro
 115 120 125
 Arg Gln Gly Gly Arg Arg Gly Thr Arg Ala Ser Pro Val Gly Ser Leu
 130 135 140
 Phe Cys Val
 145

<210> 463
 <211> 105
 <212> PRT
 <213> Homo sapiens

<400> 463

Met Phe Ala Val Leu Pro Ala Val Glu Gly Arg Ala Thr Pro His Gln
 1 5 10 15
 Asp Arg Thr Cys Tyr Pro Ser Arg Ser Arg Pro Trp Pro Ser Gln Pro
 20 25 30
 Ser Pro Arg Gly Ser Met Pro Val Pro Arg Pro Gly Ala Ala Arg Gly
 35 40 45
 Gln Leu Asp Gly His Val Gln Gly Gln Gly Trp Ala Leu Gln Trp Gly
 50 55 60
 Gly Pro Pro Ala Pro Ala Val Tyr Arg Arg Met Ala Leu Pro Pro Arg
 65 70 75 80
 Ala Ala Gly Ser Tyr Leu Asp Arg Lys Cys Pro His Pro Leu Pro Gly
 85 90 95
 Ala Arg Leu Cys Pro Gly Leu Pro Leu
 100 105

<210> 464
 <211> 127
 <212> PRT
 <213> Homo sapiens

<400> 464
 Val Phe Gly Ala Val Phe Leu Thr Thr Pro Ser His Asp Leu Ala Thr
 1 5 10 15
 Pro Thr Gly Ala Ser Gly Trp Cys Leu Leu Pro Trp Pro Ala Pro Thr
 20 25 30
 Leu Thr Leu His Arg Gly Ser Cys Ser Pro Gln Ala His Ser Leu Val
 35 40 45
 Gly Arg Thr Gly Trp Pro Trp Gly Gln Glu Gly Gly Ala Gln Gly Leu
 50 55 60
 Thr Ser Leu Arg Val Leu Pro Ser Arg His Pro Leu Pro Gln Gly Pro
 65 70 75 80
 Pro His Val Met Ala Arg Leu Val Val Asn Gly Pro Gly Trp Glu Gln
 85 90 95
 Pro Leu Ala His Cys Pro Pro Thr His Leu Thr Met Gln Phe Glu Phe
 100 105 110
 Gln Ala Thr Phe Ala Pro Ala Leu Gly Pro Ala Leu Pro Gln Pro
 115 120 125

<210> 465
 <211> 186
 <212> PRT
 <213> Homo sapiens

<400> 465
 His Glu Glu Pro Pro Ala Gly Phe Gly Leu Arg Ser Leu Trp Arg Arg
 1 5 10 15
 Ser Pro Pro His Glu Val Gly Ala Arg Leu Pro Asn Gly Ala Phe Gly
 20 25 30
 Phe Ser Val Arg Cys Leu Leu Cys Phe Pro Pro Trp Arg Ala Glu Pro
 35 40 45
 Pro His Ile Arg Ile Gly Arg Ala Thr Pro Pro Gly Pro Gly Pro Gly
 50 55 60
 Pro Ala Ser Pro Ala Leu Glu Ala Arg Cys Leu Cys Gln Gly Gln Gly
 65 70 75 80
 Gln Pro Glu Gly Ser Trp Met Ala Thr Cys Arg Val Lys Ala Gly Pro
 85 90 95
 Cys Ser Gly Ala Gly Arg Gln Pro Gln Gln Phe Thr Asp Ala Trp Leu
 100 105 110
 Phe Leu Pro Glu Gln Pro Ala Ala Thr Trp Thr Gly Asn Val Leu Ile
 115 120 125
 Pro Ser Leu Gly Pro Gly Ser Ala Leu Ala Phe Leu Cys Glu Pro Leu
 130 135 140
 Leu Ser Leu Cys Cys Leu Gly Thr Pro Asp Arg Gly Val Arg Val Cys

145 150 155 160
 Pro Ser Val Thr Phe Tyr Ser Pro Arg Val Glu Glu Arg Lys Arg Gly
 165 170 175
 Lys Ser Lys Gly Val Gln Thr Pro Pro Gln
 180 185

<210> 466
 <211> 100
 <212> PRT
 <213> Homo sapiens

<400> 466
 Met Ala Thr Cys Arg Val Lys Ala Gly Pro Cys Ser Gly Ala Gly Arg
 1 5 10 15
 Gln Pro Gln Gln Phe Thr Asp Ala Trp Leu Phe Leu Pro Glu Gln Pro
 20 25 30
 Ala Ala Thr Trp Thr Gly Asn Val Leu Ile Pro Ser Leu Gly Pro Gly
 35 40 45
 Ser Ala Leu Ala Phe Leu Cys Glu Pro Leu Leu Ser Leu Cys Cys Leu
 50 55 60
 Gly Thr Pro Asp Arg Gly Val Arg Val Cys Pro Ser Val Thr Phe Tyr
 65 70 75 80
 Ser Pro Arg Val Glu Glu Arg Lys Arg Gly Lys Ser Lys Gly Val Gln
 85 90 95
 Thr Pro Pro Gln
 100

<210> 467
 <211> 244
 <212> PRT
 <213> Homo sapiens

<400> 467
 Met Lys Trp Phe Ser Thr Gln Pro Leu Trp Leu Asn Thr Lys Gln Arg
 1 5 10 15
 Ser His Arg Arg Gly Pro Gly Pro Pro Pro Ala Pro Leu Ser Gly Val
 20 25 30
 Leu Gly Ser Arg Gly Leu Pro His His Pro Ser Gln Gly Trp Gly Arg
 35 40 45
 Ala Gly Pro Arg Ala Gly Ala Asn Val Ala Trp Asn Ser Asn Cys Ile
 50 55 60
 Val Arg Trp Val Gly Gly Gln Trp Ala Arg Gly Cys Ser Gln Pro Gly
 65 70 75 80
 Pro Phe Thr Thr Asn Leu Ala Met Thr Cys Gly Gly Pro Trp Gly Ser
 85 90 95
 Gly Cys Leu Leu Gly Ser Thr Leu Ser Glu Val Ser Pro Trp Ala Pro
 100 105 110

Pro Ser Cys Pro Gln Gly His Pro Val Leu Pro Thr Arg Leu Trp Ala
 115 120 125
 Trp Gly Leu Gln Asp Pro Leu Cys Arg Val Arg Val Gly Ala Gly His
 130 135 140
 Gly Ser Arg His Gln Pro Asp Ala Pro Val Gly Val Ala Arg Ser Trp
 145 150 155 160
 Asp Gly Val Val Arg Asn Thr Ala Pro Lys Thr Gln Asn Lys Asn Thr
 165 170 175
 Thr Asn Gly Arg Arg Ser Pro Pro Pro Thr Glu Val Gly Phe Glu Pro
 180 185 190
 Leu Leu Ile Phe Pro Val Ser Phe Leu Gln Pro Leu Val Ser Arg Lys
 195 200 205
 Ser Gln Thr Gly Thr His Ala His His Gly Gln Glu Ser Arg Asp Ser
 210 215 220
 Thr Lys Lys Gly Gly Val His Arg Gly Arg Pro Gly Gln Ser Leu Ala
 225 230 235 240
 Pro Gly Arg Gly

<210> 468
 <211> 165
 <212> PRT
 <213> Homo sapiens

<400> 468
 Lys Val Thr Asp Gly His Thr Arg Thr Pro Arg Ser Gly Val Pro Arg
 1 5 10 15
 Gln His Lys Glu Arg Arg Gly Ser Gln Arg Lys Ala Arg Ala Glu Pro
 20 25 30
 Gly Pro Arg Glu Gly Met Arg Thr Phe Pro Val Gln Val Ala Ala Gly
 35 40 45
 Cys Ser Gly Arg Lys Ser His Ala Ser Val Asn Cys Trp Gly Trp Arg
 50 55 60
 Pro Ala Pro Leu Gln Gly Pro Ala Leu Thr Leu His Val Ala Ile Gln
 65 70 75 80
 Leu Pro Ser Gly Cys Pro Trp Pro Trp His Arg His Arg Ala Ser Arg
 85 90 95
 Ala Gly Leu Ala Gly Pro Gly Pro Gly Pro Gly Gly Val Ala Arg Pro
 100 105 110
 Ile Leu Met Trp Gly Gly Ser Ala Leu His Gly Gly Lys His Ser Lys
 115 120 125
 His Arg Thr Leu Lys Pro Lys Ala Pro Leu Gly Ser Leu Ala Pro Thr
 130 135 140
 Ser Trp Gly Gly Asp Arg Arg His Arg Asp Leu Ser Pro Lys Pro Ala
 145 150 155 160
 Gly Gly Ser Ser Cys

165

<210> 469
 <211> 128
 <212> PRT
 <213> Homo sapiens

<400> 469
 Met Arg Thr Phe Pro Val Gln Val Ala Ala Gly Cys Ser Gly Arg Lys
 1 5 10 15
 Ser His Ala Ser Val Asn Cys Trp Gly Trp Arg Pro Ala Pro Leu Gln
 20 25 30
 Gly Pro Ala Leu Thr Leu His Val Ala Ile Gln Leu Pro Ser Gly Cys
 35 40 45
 Pro Trp Pro Trp His Arg His Arg Ala Ser Arg Ala Gly Leu Ala Gly
 50 55 60
 Pro Gly Pro Gly Pro Gly Gly Val Ala Arg Pro Ile Leu Met Trp Gly
 65 70 75 80
 Gly Ser Ala Leu His Gly Gly Lys His Ser Lys His Arg Thr Leu Lys
 85 90 95
 Pro Lys Ala Pro Leu Gly Ser Leu Ala Pro Thr Ser Trp Gly Gly Asp
 100 105 110
 Arg Arg His Arg Asp Leu Ser Pro Lys Pro Ala Gly Gly Ser Ser Cys
 115 120 125

<210> 470
 <211> 13
 <212> PRT
 <213> Homo sapiens

<400> 470
 Gly Leu Met Glu Cys Leu Ile His Arg His Gly Ser His
 1 5 10

<210> 471
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 471
 Ser Thr Lys Gly Met Gln Phe Ile Leu Thr Gly Ile Thr Leu Ser Gly
 1 5 10 15

Tyr

<210> 472
 <211> 209

<212> PRT

<213> Homo sapiens

<400> 472

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Pro Arg Val Arg Ala Leu Leu Phe Ala Arg Ser Leu Arg Leu Cys Arg
  1           5           10           15

Trp Gly Ala Lys Arg Leu Gly Val Ala Ser Thr Glu Ala Gln Arg Gly
          20           25           30

Val Ser Phe Lys Leu Glu Glu Lys Thr Ala His Ser Ser Leu Ala Leu
      35           40           45

Phe Arg Asp Asp Thr Gly Val Lys Tyr Gly Leu Val Gly Leu Glu Pro
      50           55           60

Thr Lys Val Ala Leu Asn Val Glu Arg Phe Arg Glu Trp Ala Val Val
      65           70           75           80

Leu Ala Asp Thr Ala Val Thr Ser Gly Arg His Tyr Trp Glu Val Thr
          85           90           95

Val Lys Arg Ser Gln Gln Phe Arg Ile Gly Val Ala Asp Val Asp Met
          100          105          110

Ser Arg Asp Ser Cys Ile Gly Val Asp Asp Arg Ser Trp Val Phe Thr
      115           120          125

Met Pro Ser Ala Ser Gly Thr Pro Cys Trp Pro Thr Arg Lys Pro Gln
      130           135          140

Leu Arg Val Leu Gly Ser Gln Glu Val Gly Leu Leu Leu Glu Tyr Glu
      145           150          155          160

Ala Gln Lys Leu Ser Leu Val Asp Val Ser Gln Val Ser Val Val His
          165          170          175

Thr Leu Gln Thr Asp Phe Arg Gly Pro Val Val Pro Ala Phe Ala Leu
      180           185          190

Trp Asp Gly Glu Leu Leu Thr His Ser Gly Leu Glu Val Pro Glu Gly
      195           200          205

Leu

```

<210> 473

<211> 98

<212> PRT

<213> Homo sapiens

<400> 473

```

Met Ser Arg Asp Ser Cys Ile Gly Val Asp Asp Arg Ser Trp Val Phe
  1           5           10           15

Thr Met Pro Ser Ala Ser Gly Thr Pro Cys Trp Pro Thr Arg Lys Pro
      20           25           30

Gln Leu Arg Val Leu Gly Ser Gln Glu Val Gly Leu Leu Leu Glu Tyr
      35           40           45

Glu Ala Gln Lys Leu Ser Leu Val Asp Val Ser Gln Val Ser Val Val
      50           55           60

```

His Thr Leu Gln Thr Asp Phe Arg Gly Pro Val Val Pro Ala Phe Ala
65 70 75 80

Leu Trp Asp Gly Glu Leu Leu Thr His Ser Gly Leu Glu Val Pro Glu
85 90 95

Gly Leu

<210> 474
<211> 1913
<212> DNA
<213> Homo sapiens

<400> 474
gcacgagcgg cagcagcggga tcctcacacg actgtgatcc gattctttcc agcgggttct 60
gcaaccaagc ggggtcttacc cccgggtcctc cgcgtctcca gtcctcgcac ctggaacccc 120
aacgtccccg agagtccccg aatccccgct cccagggtac ctaagaggat gagcgggtgct 180
ccgacggccg gggcagccct gatgctctgc gccgccaccg ccgtgctact gagegctcag 240
ggcggaccgg tgcagtccaa gtcgccgcgc tttgcgtcct gggacgagat gaatgtcctg 300
gcgacgggac tcctgcagct cggccagggg ctgcgcgaa acgcgagagc caccgcagct 360
cagctgagcg cgctggagcg gcgcctgagc gcgtgcggg ccgcctgtca gggaaaccgag 420
gggtccaccg acctcccgtt agcccctgag agccgggtgg accctgaggt ccttcacagc 480
ctgcagacac aactcaaggc tcagaacagc aggatccagc aactcttcca caaggtggcc 540
cagcagcagc ggcacctgga gaagcagcac ctgccaattc agcatctgca aagccagttt 600
ggcctcctgg accacaagca cctagaccat gaggtggcca agcctgccc aagaaagagg 660
ctgcccagaga tggcccagcc agttgaccgg gctcacaatg tcagccgcct gcaccggctg 720
cccagggtatt gccaggagct gttccaggtt ggggagaggc agagtggact atttgaaatc 780
cagcctcagg ggtctccgcc atttttgggt aactgcaaga tgacctcaga tggaggctgg 840
acagtaattc agaggcgcca cgatggctca gtggacttca accggccctg ggaagcctac 900
aaggcggggg ttggggatcc ccacggcgag ttctggctgg gtctggagaa ggtgcatagc 960
atcacggggg accgcaacag ccgcctggcc gtgcagctgc gggactggga tggcaacgcc 1020
gagttgctgc agttctccgt gcacctgggt ggcgaggaca cggcctatag cctgcagctc 1080
actgcaccgg tggccggcca gctggcgccc accaccgtcc caccagcgg cctctccgta 1140
cccttctcca cttgggacca ggatcacgac ctccgcaggg acaagaactg cgccaagagc 1200
ctctctggag gctggtggtt tggcacctgc agccattcca acctcaacgg ccagtacttc 1260
cgctccatcc cacagcagcg gcagaagctt aagaaggaa tcttctggaa gacctggcgg 1320
ggccgctact acccgctgca ggccaccacc atgttgatcc agcccatggc agcagaggca 1380
gcctcctagc gtcctggctg ggctgggtcc caggccacag aaagacgggtg actcttggct 1440
ctgcccagagg atgtggccgt tccctgcctg ggcaggggt ccaaggaggg gccatctgga 1500
aacttggtga cagagaagaa gaccacgact ggagaagccc cttttctgag tgcagggggg 1560
ctgcatgcgt tgctcctga gatcaggct cagagatatg gcccaggag ttggggactc agagggacca 1620
accaaggggg atggagcttc actccttgct ggccaggag ttggggactc agagggacca 1680
cttggggcca gccagactgg cctcaatggc ggactcagtc acattgactg acggggacca 1740
gggcttggtg gggtcgagag cgccctcatg gtgctggtgc tgttggtgtg aggtcccctg 1800
gggacacaag caggcgccaa tggatatctg gcggagctca cagagttctt ggaataaaaag 1860
caacctcaga acaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaa 1913

<210> 475
<211> 1221
<212> DNA
<213> Homo sapiens

<400> 475
atgagcgggtg ctccgacggc cggggcagcc ctgatgctct gcgccgccac cgccgtgcta 60
ctgagcgctc agggcggacc cgtgcagtcc aagtcgccgc gctttgcgtc ctgggacgag 120
atgaatgttc tggcgacgg actcctgcag ctccggccagg ggctgcgcga acacgcggag 180
cgcacccgca gtcagctgag cgcgctggag cggcgccctga gcgcgtgcgg gtccgcctgt 240
cagggaaccg aggggtccac cgacctccc ttagcccttg agagccgggt ggacctgag 300
gtccttcaca gctgcagac acaactcaag gctcagaaca gcaggatcca gcaactcttc 360
cacaaggtgg cccagcagc gcggcacctg gagaagcagc acctgcgaat tcagcatctg 420
caaagccagt ttggcctcct ggaccacaag cacctagacc atgaggtggc caagcctgcc 480
cgaagaaaga ggctgcccga gatggcccag ccagttgacc cggctcacia tgctagccgc 540
ctgcaccggc tgcccaggga ttgcccaggag ctgttccagg ttggggagag gcagagtgga 600

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ctattttgaaa tccagcctca ggggtctccg ccatttttgg tgaactgcaa gatgacctca 660
gatggaggct ggacagtaat tcagaggcgc cacgatggct cagtggactt caaccggccc 720
tggaagcct acaaggcggg gtttggggat cccacggcg agttctggct ggggtctggag 780
aaggtgcata gcatcacggg ggaccgcaac agccgcctgg ccgtgcagct gcgggactgg 840
gatggcaacg ccgagttgct gcagttctcc gtgcacctgg gtggcgagga cacggcctat 900
agcctgcagc tcaactgcacc cgtggccggc cagctgggcg ccaccaccgt cccaccacgc 960
ggcctctccg tacccttctc cacttgggac caggatcacg acctccgcag ggacaagaac 1020
tgcgccaaga gcctctctgg aggtcgttgg tttggcacct gcagccattc caacctcaac 1080
ggccagtact tccgctccat cccacagcag cggcagaagc ttaagaaggg aatcttctgg 1140
aagacctggc ggggcccgtc ctacccgctg caggccacca ccatgttgat ccagcccatg 1200
gcagcagagg cagcctccta g                                     1221

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<210> 476
 <211> 175
 <212> PRT
 <213> Homo sapiens

```

<400> 476
Met Ala Gln Trp Thr Ser Thr Gly Pro Gly Lys Pro Thr Arg Arg Gly
  1              5              10              15
Leu Gly Ile Pro Thr Ala Ser Ser Gly Trp Val Trp Arg Arg Cys Ile
              20              25              30
Ala Ser Trp Gly Thr Ala Thr Ala Ala Trp Pro Cys Ser Cys Gly Thr
              35              40              45
Gly Met Ala Thr Pro Ser Cys Cys Ser Ser Pro Cys Thr Trp Val Ala
  50              55              60
Arg Thr Arg Pro Ile Ala Cys Ser Ser Leu His Pro Trp Pro Ala Ser
  65              70              75              80
Trp Ala Pro Pro Pro Ser His Pro Ala Ala Ser Pro Tyr Pro Ser Pro
              85              90              95
Leu Gly Thr Arg Ile Thr Thr Ser Ala Gly Thr Arg Thr Ala Pro Arg
              100              105              110
Ala Ser Leu Glu Ala Gly Gly Leu Ala Pro Ala Ala Ile Pro Thr Phe
              115              120              125
Asn Gly Pro Val Leu Pro Ala Pro Ser His Ser Ser Gly Arg Ser Leu
              130              135              140
Arg Arg Glu Ser Ser Gly Arg Pro Ala Gly Arg Tyr Tyr Pro Leu Gln
              145              150              155              160
Ala Thr Thr Met Leu Ile Gln Pro Met Ala Ala Glu Ala Ala Ser
              165              170              175

```

<210> 477
 <211> 13
 <212> PRT
 <213> Homo sapiens

```

<400> 477
Trp Trp Phe Gly Thr Cys Ser His Ser Asn Leu Asn Gly
  1              5              10

```

<210> 478
 <211> 19

<212> PRT
 <213> Homo sapiens

<400> 478
 Ser Gly Gly Trp Trp Phe Gly Thr Cys Ser His Ser Asn Leu Asn Gly
 1 5 10 15
 Gln Tyr Phe

<210> 479
 <211> 32
 <212> PRT
 <213> Homo sapiens

<400> 479
 Gly His Asp Leu Pro Gln Asp Ala Trp Leu Arg Trp Val Leu Ala Gly
 1 5 10 15
 Ala Leu Cys Ala Gly Gly Trp Ala Val Asn Tyr Leu Pro Phe Phe Leu
 20 25 30

<210> 480
 <211> 18
 <212> PRT
 <213> Homo sapiens

<400> 480
 Phe Leu Tyr His Tyr Leu Pro Ala Leu Thr Phe Gln Ile Leu Leu Leu
 1 5 10 15
 Pro Val

<210> 481
 <211> 59
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (44)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (49)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 481
 Met Ser Pro Leu Pro Trp Pro Gly Pro Leu Pro Gly Gly Arg Gln Gly
 1 5 10 15
 His Arg Leu Glu Pro Cys Cys Ser Ser Gly Cys Ala Gly Gly Pro Thr
 20 25 30
 Trp Pro His Cys Ser Ser Gln Ser Trp Pro Met Xaa Ser Ala Arg His

35 40 45
 Xaa Gly Leu Gly His Cys Cys Pro Ser Ser Pro
 50 55

<210> 482
 <211> 32
 <212> PRT
 <213> Homo sapiens

<400> 482
 Asp Ile Cys Arg Leu Glu Arg Ala Val Cys Arg Asp Glu Pro Ser Ala
 1 5 10 15
 Leu Ala Arg Ala Leu Thr Trp Arg Gln Ala Arg Ala Gln Ala Gly Ala
 20 25 30

<210> 483
 <211> 114
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (6)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 483
 Xaa Ala Pro Ala Thr Xaa Ala Trp Asp Thr Val Val Pro Pro Leu Pro
 1 5 10 15
 Arg Lys Cys Gln Cys Ser Gly Ser Ala Arg Ser His Gly Ala Gly Arg
 20 25 30
 Ser Ala Leu His Ser Pro Leu Glu Gly Ser Arg Pro Lys Val Pro Ala
 35 40 45
 Gly Ala Val Gly Lys Ser Leu Pro Gly Gln Ser Arg Pro Gln His Cys
 50 55 60
 Leu Pro Pro Lys Gln Pro Lys Gln Cys Arg Pro Gly Leu Glu Leu Lys
 65 70 75 80
 Glu Gly Pro Leu Leu Thr Pro Thr Arg Ala Ser Val Gln Leu Ser His
 85 90 95
 Pro Ala Cys Leu Tyr Trp Ala Pro Leu Leu Trp Ile Arg Asp Pro Ala
 100 105 110

Ser Val

<210> 484
 <211> 55
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (6)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 484
 Xaa Ala Pro Ala Thr Xaa Ala Trp Asp Thr Val Val Pro Pro Leu Pro
 1 5 10 15
 Arg Lys Cys Gln Cys Ser Gly Ser Ala Arg Ser His Gly Ala Gly Arg
 20 25 30
 Ser Ala Leu His Ser Pro Leu Glu Gly Ser Arg Pro Lys Val Pro Ala
 35 40 45
 Gly Ala Val Gly Lys Ser Leu
 50 55

<210> 485
 <211> 59
 <212> PRT
 <213> Homo sapiens

<400> 485
 Pro Gly Gln Ser Arg Pro Gln His Cys Leu Pro Pro Lys Gln Pro Lys
 1 5 10 15
 Gln Cys Arg Pro Gly Leu Glu Leu Lys Glu Gly Pro Leu Leu Thr Pro
 20 25 30
 Thr Arg Ala Ser Val Gln Leu Ser His Pro Ala Cys Leu Tyr Trp Ala
 35 40 45
 Pro Leu Leu Trp Ile Arg Asp Pro Ala Ser Val
 50 55

<210> 486
 <211> 133
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (55)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (61)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 486

```

Asp Ile Cys Arg Leu Glu Arg Ala Val Cys Arg Asp Glu Pro Ser Ala
 1           5           10           15
Leu Ala Arg Ala Leu Thr Trp Arg Gln Ala Arg Ala Gln Ala Gly Ala
          20           25           30
Met Leu Leu Phe Gly Leu Cys Trp Gly Pro Tyr Val Ala Thr Leu Leu
      35           40           45
Leu Ser Val Leu Ala Tyr Xaa Gln Arg Pro Pro Leu Xaa Pro Gly Thr
      50           55           60
Leu Leu Ser Leu Leu Ser Leu Gly Ser Ala Ser Ala Ala Ala Val Pro
      65           70           75           80
Val Ala Met Gly Leu Gly Asp Gln Arg Tyr Thr Ala Pro Trp Arg Ala
          85           90           95
Ala Ala Gln Arg Cys Leu Gln Gly Leu Trp Gly Arg Ala Ser Arg Asp
          100           105           110
Ser Pro Gly Pro Ser Ile Ala Tyr His Pro Ser Ser Gln Ser Ser Val
      115           120           125
Asp Leu Asp Leu Asn
      130

```

<210> 487

<211> 48

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 487

```

Met Glu Arg Val Gly Met Glu Ser Gly Glu Met Val Cys Gly Leu Gly
 1           5           10           15

```

```

Ser Ala Cys Asn Asn Pro Ser Asp Leu Gly Gln Val Pro Val Pro Leu
          20           25           30

```

```

Trp Xaa Ser Val Ser Pro Pro Val Phe Gly Xaa Gly Trp Asn Gly His
      35           40           45

```

<210> 488

<211> 107

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (84)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 488

```

Met Arg Ser Phe Gln Asp Val Ser Ala Leu Glu Glu Trp Arg Gly Gly
 1           5           10           15

Lys Asp Leu Glu Pro Thr His Ser Leu Leu Leu Leu Leu Pro Leu Arg
          20           25           30

Asp Leu Leu Val Val Leu Gly Glu Ile Arg Lys Arg Gln Met Glu Gly
          35           40           45

Cys Val Trp Lys Gly Trp Gly Trp Asn Pro Glu Lys Trp Phe Ala Val
          50           55           60

Leu Ala Leu Pro Val Thr Thr Arg Val Thr Leu Gly Lys Ser Leu Ser
          65           70           75           80

Leu Ser Gly Xaa Gln Phe Leu His Leu Tyr Leu Glu Arg Val Gly Met
          85           90           95

Gly Thr Glu Val Leu Ser Ser Ser Asp Leu Leu
          100           105

```

<210> 489

<211> 118

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 489

```

Met His Pro Ala Gly Pro Thr Phe Met Gly Ser Lys Pro Ile Arg Glu
 1           5           10           15

Gln Gln Phe Gly Pro Asp Ala Cys Leu Leu Leu Cys Val Ala Met
          20           25           30

Ala Gly Thr Glu Ala Ser Arg Ala Ala Gln Gln Cys Thr Ser Gln Lys
          35           40           45

Val Arg Ala Gly Gln Asp Phe Ser Ala His Ser Asn Pro Xaa Gln Ile
          50           55           60

Gln Val Glu Lys Leu Xaa Pro Arg Glu Gly Gln Gly Leu Ala Gln Gly
          65           70           75           80

His Ser Gly Cys Tyr Arg Gln Ser Gln Asp Arg Lys Pro Phe Leu Arg
          85           90           95

Ile Pro Ser Pro Pro Phe Pro Tyr Thr Thr Leu His Leu Pro Phe Pro
          100           105           110

Asp Phe Ala Lys Asn His
          115

```

<210> 490
 <211> 61
 <212> PRT
 <213> Homo sapiens

<400> 490
 Met His Pro Ala Gly Pro Thr Phe Met Gly Ser Lys Pro Ile Arg Glu
 1 5 10 15
 Gln Gln Phe Gly Pro Asp Ala Cys Leu Leu Leu Leu Cys Val Ala Met
 20 25 30
 Ala Gly Thr Glu Ala Ser Arg Ala Ala Gln Gln Cys Thr Ser Gln Lys
 35 40 45
 Val Arg Ala Gly Gln Asp Phe Ser Ala His Ser Asn Pro
 50 55 60

<210> 491
 <211> 48
 <212> PRT
 <213> Homo sapiens

<400> 491
 Pro Arg Glu Gly Gln Gly Leu Ala Gln Gly His Ser Gly Cys Tyr Arg
 1 5 10 15
 Gln Ser Gln Asp Arg Lys Pro Phe Leu Arg Ile Pro Ser Pro Pro Phe
 20 25 30
 Pro Tyr Thr Thr Leu His Leu Pro Phe Pro Asp Phe Ala Lys Asn His
 35 40 45

<210> 492
 <211> 22
 <212> PRT
 <213> Homo sapiens

<400> 492
 Asp Pro Arg Val Arg Lys Pro Pro Thr Ala Thr Leu Thr Thr Ala Arg
 1 5 10 15
 Thr Arg Pro Thr Thr Asp
 20

<210> 493
 <211> 82
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (70)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (81)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (82)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 493
 Ala Ala Leu Glu Ala Ser Val Pro Ala Ile Ala Thr Gln Arg Ser Ser
 1 5 10 15
 Arg Gln Ala Ser Gly Pro Asn Cys Cys Ser Leu Met Gly Leu Asp Pro
 20 25 30
 Met Lys Val Gly Pro Ala Gly Cys Ile Ser Trp Asp Ser Val Glu Ala
 35 40 45
 Asp Gln Val Ala Gly Ala Ser Gly Gly Arg Ile Glu Val Lys Gly Cys
 50 55 60
 Gly Met Glu Asn Leu Xaa Arg Leu His Leu Gly Ser Gly Lys Gly Gln
 65 70 75 80
 Xaa Xaa

<210> 494
 <211> 99
 <212> PRT
 <213> Homo sapiens

<400> 494
 Met Leu His Arg Gln Trp Leu Thr Val Arg Arg Ala Gly Gly Pro Pro
 1 5 10 15
 Arg Thr Asp Gln Gln Arg Arg Thr Val Arg Cys Leu Arg Asp Thr Val
 20 25 30
 Leu Leu Leu His Gly Leu Ser Gln Lys Asp Lys Leu Phe Met Met His
 35 40 45
 Cys Val Glu Val Leu His Gln Phe Asp Gln Val Met Pro Gly Val Ser
 50 55 60
 Met Leu Ile Arg Gly Leu Pro Asp Val Thr Asp Cys Glu Glu Ala Ala
 65 70 75 80
 Leu Asp Asp Leu Cys Ala Ala Glu Thr Asp Val Glu Asp Pro Glu Val
 85 90 95
 Glu Cys Gly

<210> 495
 <211> 62
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (2)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (58)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 495
 Gly Xaa Ala Asn Pro Glu Asp Ser Val Cys Ile Leu Glu Gly Phe Ser
 1 5 10 15
 Val Thr Ala Leu Ser Ile Leu Gln His Leu Val Cys His Ser Gly Ala
 20 25 30
 Val Arg Leu Pro Ile Thr Val Arg Ser Gly Gly Arg Phe Cys Cys Trp
 35 40 45
 Gly Arg Lys Gln Glu Pro Gly Ser Gln Xaa Ser Asp Gly Asp
 50 55 60

<210> 496
 <211> 65
 <212> PRT
 <213> Homo sapiens

<400> 496
 Ala Val Gln Gln Gln His Arg Val Pro Gln Thr Ala His Cys Pro Pro
 1 5 10 15
 Leu Leu Val Gly Pro Trp Gly Ser Pro Cys Pro Pro His Cys Gln Pro
 20 25 30
 Leu Ser Val Gln His His Arg Glu Arg Ser Asp His Leu His Ile Thr
 35 40 45
 Leu Ala Val Gly Ala Ser Asp Trp Gly Gln Gly Ala Leu Ala His Gln
 50 55 60
 Ala
 65

<210> 497
 <211> 220
 <212> PRT
 <213> Homo sapiens

<400> 497
 Pro Lys Thr Leu Pro Val Ile Ser Cys Pro Gly Ser Ser Val Cys Ser
 1 5 10 15
 Lys Cys Cys Gln Ser Ala Ser Ala Gln Arg His Pro Cys Leu Ala Cys
 20 25 30
 Cys Trp Leu Ser Ser Ser Pro Cys Trp Arg Thr Thr Thr Ser Trp
 35 40 45
 His Leu Ser Ser Val Pro Thr Gln Lys Ala Ala Ser Cys Cys Cys Cys
 50 55 60

Thr Cys Thr Ser His His Gly Leu Thr Glu Trp Pro Trp Arg His Asn
 65 70 75 80
 Gly Ser Ser Trp Asn Lys Arg Trp Cys Gly Ser Trp Leu Ser Leu Val
 85 90 95
 Cys Lys Ser Pro Leu Pro Pro Val Thr Gly Ser Asn Cys Gln Cys Asn
 100 105 110
 Val Glu Val Val Arg Ala Leu Thr Val Met Leu His Arg Gln Trp Leu
 115 120 125
 Thr Val Arg Arg Ala Gly Gly Pro Pro Arg Thr Asp Gln Gln Arg Arg
 130 135 140
 Thr Val Arg Cys Leu Arg Asp Thr Val Leu Leu Leu His Gly Leu Ser
 145 150 155 160
 Gln Lys Asp Lys Leu Phe Met Met His Cys Val Glu Val Leu His Gln
 165 170 175
 Phe Asp Gln Val Met Pro Gly Val Ser Met Leu Ile Arg Gly Leu Pro
 180 185 190
 Asp Val Thr Asp Cys Glu Glu Ala Ala Leu Asp Asp Leu Cys Ala Ala
 195 200 205
 Glu Thr Asp Val Glu Asp Pro Glu Val Glu Cys Gly
 210 215 220

<210> 498

<211> 223

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 498

Gly Xaa Ala Asn Pro Glu Asp Ser Val Cys Ile Leu Glu Gly Phe Ser
 1 5 10 15

Val Thr Ala Leu Ser Ile Leu Gln His Leu Val Cys His Ser Gly Ala
 20 25 30

Val Arg Leu Pro Ile Thr Val Arg Ser Gly Gly Arg Phe Cys Cys Trp
 35 40 45

Gly Arg Lys Gln Glu Pro Gly Ser Gln Xaa Ser Asp Gly Asp Met Thr
 50 55 60

Ser Ala Leu Arg Gly Val Ala Asp Asp Gln Gly Gln His Pro Leu Leu
 65 70 75 80

Lys Met Leu Leu His Leu Leu Ala Phe Ser Ser Ala Ala Thr Gly His
 85 90 95

Leu Gln Ala Ser Val Leu Thr Gln Cys Leu Lys Val Leu Val Lys Leu
 100 105 110
 Ala Glu Asn Thr Ser Cys Asp Phe Leu Pro Arg Phe Gln Cys Val Phe
 115 120 125
 Gln Val Leu Pro Lys Cys Leu Ser Pro Glu Thr Pro Leu Pro Ser Val
 130 135 140
 Leu Leu Ala Val Glu Leu Leu Ser Leu Leu Ala Asp His Asp Gln Leu
 145 150 155 160
 Ala Pro Gln Leu Cys Ser His Ser Glu Gly Cys Leu Leu Leu Leu Leu
 165 170 175
 Tyr Met Tyr Ile Thr Ser Arg Pro Asp Arg Val Ala Leu Glu Thr Gln
 180 185 190
 Trp Leu Gln Leu Glu Gln Glu Val Val Trp Leu Leu Ala Lys Leu Gly
 195 200 205
 Val Gln Glu Pro Leu Ala Pro Ser His Trp Leu Gln Leu Pro Val
 210 215 220

<210> 499
 <211> 123
 <212> PRT
 <213> Homo sapiens

<400> 499
 Gln Ser Pro Leu Pro 5 Pro Val Thr Gly Ser Asn Cys Gln Cys Asn Val
 1 10 15
 Glu Val Val Arg Ala Leu Thr Val Met Leu His Arg Gln Trp Leu Thr
 20 25 30
 Val Arg Arg Ala Gly Gly Pro Pro Arg Thr Asp Gln Gln Arg Arg Thr
 35 40 45
 Val Arg Cys Leu Arg Asp Thr Val Leu Leu Leu His Gly Leu Ser Gln
 50 55 60
 Lys Asp Lys Leu Phe Met Met His Cys Val Glu Val Leu His Gln Phe
 65 70 75 80
 Asp Gln Val Met Pro Gly Val Ser Met Leu Ile Arg Gly Leu Pro Asp
 85 90 95
 Val Thr Asp Cys Glu Glu Ala Ala Leu Asp Asp Leu Cys Ala Ala Glu
 100 105 110
 Thr Asp Val Glu Asp Pro Glu Val Glu Cys Gly
 115 120

<210> 500
 <211> 63
 <212> PRT
 <213> Homo sapiens

<400> 500
 Gln Ser Pro Leu Pro 5 Pro Val Thr Gly Ser Asn Cys Gln Cys Asn Val
 1 10 15

Glu Val Val Arg Ala Leu Thr Val Met Leu His Arg Gln Trp Leu Thr
 20 25 30
 Val Arg Arg Ala Gly Gly Pro Pro Arg Thr Asp Gln Gln Arg Arg Thr
 35 40 45
 Val Arg Cys Leu Arg Asp Thr Val Leu Leu Leu His Gly Leu Ser
 50 55 60

<210> 501
 <211> 60
 <212> PRT
 <213> Homo sapiens

<400> 501
 Gln Lys Asp Lys Leu Phe Met Met His Cys Val Glu Val Leu His Gln
 1 5 10 15
 Phe Asp Gln Val Met Pro Gly Val Ser Met Leu Ile Arg Gly Leu Pro
 20 25 30
 Asp Val Thr Asp Cys Glu Glu Ala Ala Leu Asp Asp Leu Cys Ala Ala
 35 40 45
 Glu Thr Asp Val Glu Asp Pro Glu Val Glu Cys Gly
 50 55 60

<210> 502
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 502
 Cys Leu Arg Asp Thr Val Leu Leu Leu His Gly Leu Ser Gln Lys Asp
 1 5 10 15
 Lys Leu Phe Met Met His Cys Val Glu Val Leu His Gln Phe Asp Gln
 20 25 30
 Val Met Pro Gly Val Ser Met Leu Ile Arg Gly Leu Pro Asp Val Thr
 35 40 45
 Asp Cys
 50

<210> 503
 <211> 102
 <212> PRT
 <213> Homo sapiens

<400> 503
 Met Ser Gly Gln Leu Asp Ala Arg Pro Ala Ala Ala Leu His Pro Gln
 1 5 10 15
 Gly Leu Ala His Pro Leu Trp Thr Cys Leu Leu Pro Arg Lys Gly Pro
 20 25 30
 Ser Glu Val Pro Gln Arg Pro Pro Gln Leu Trp Val Val Ser Ile Ser
 35 40 45

Val Leu Gln Gly Gln His Arg Gly Arg Ala Gly Pro Arg Asp Glu Gln
 50 55 60
 Ser Val Asp Val Thr Asn Thr Thr Phe Leu Leu Met Ala Ala Ser Ile
 65 70 75 80
 Tyr Leu His Asp Gln Asn Pro Asp Ala Ala Leu Arg Ala Leu His Gln
 85 90 95
 Gly Asp Ser Leu Glu Trp
 100

<210> 504
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 504
 Ser Val Asp Val Thr Asn Thr Thr Phe Leu Leu Met Ala Ala Ser Ile
 1 5 10 15
 Tyr Leu His Asp
 20

<210> 505
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 505
 Gln Asn Pro Asp Ala Ala Leu Arg Ala Leu His Gln Gly Asp Ser Leu
 1 5 10 15
 Glu

<210> 506
 <211> 14
 <212> PRT
 <213> Homo sapiens

<400> 506
 Arg Asp Ser Ile Val Ala Glu Leu Asp Arg Glu Met Ser Arg
 1 5 10

<210> 507
 <211> 39
 <212> PRT
 <213> Homo sapiens

<400> 507
 Met Leu Gly Leu Leu Leu Leu Cys Thr Pro Arg Ala Trp Leu Thr Leu
 1 5 10 15
 Ser Gly Pro Val Cys Phe Gln Gly Arg Asp Pro Leu Arg Ser His Arg
 20 25 30

Gly His Pro Ser Cys Gly Ser
35

<210> 508
<211> 11
<212> PRT
<213> Homo sapiens

<400> 508
His Gly Phe Pro Glu Phe Trp Tyr Ser Trp Arg
1 5 10

<210> 509
<211> 10
<212> PRT
<213> Homo sapiens

<400> 509
Ala Ser His Trp Leu Gln Gln Asp Gln Pro
1 5 10

<210> 510
<211> 9
<212> PRT
<213> Homo sapiens

<400> 510
Pro Ile Asn His Tyr Arg Asn Ile Phe
1 5

<210> 511
<211> 9
<212> PRT
<213> Homo sapiens

<400> 511
Tyr Pro Glu Met Val Met Lys Leu Ile
1 5

<210> 512
<211> 14
<212> PRT
<213> Homo sapiens

<400> 512
Pro Glu Phe Trp Tyr Ser Trp Arg Tyr Gln Leu Arg Glu Phe
1 5 10

<210> 513
<211> 9
<212> PRT
<213> Homo sapiens

<400> 513

His Asp Trp Gly Gly Met Ile Ala Trp
 1 5

<210> 514
 <211> 31
 <212> PRT
 <213> Homo sapiens

<400> 514
 Arg Leu Gly Ala Val Leu Thr Pro Val Ile Pro Ala Leu Trp Glu Ala
 1 5 10 15

Glu Ala Ser Arg Ser Pro Glu Thr Arg Ser Leu Arg Pro Ala Trp
 20 25 30

<210> 515
 <211> 14
 <212> PRT
 <213> Homo sapiens

<400> 515
 Gly Ser Leu Pro Pro Lys Pro Ile Tyr Leu Val Val Pro Arg
 1 5 10

<210> 516
 <211> 16
 <212> PRT
 <213> Homo sapiens

<400> 516
 Leu Val Phe Ala Glu His Arg Tyr Tyr Gly Lys Ser Leu Pro Phe Gly
 1 5 10 15

<210> 517
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 517
 Glu Gln Ala Leu Ala Asp Phe Ala Glu Leu
 1 5 10

<210> 518
 <211> 18
 <212> PRT
 <213> Homo sapiens

<400> 518
 Gly Gly Ser Tyr Gly Gly Met Leu Ser Ala Tyr Leu Arg Met Lys Tyr
 1 5 10 15

Pro His

<210> 519
 <211> 16
 <212> PRT
 <213> Homo sapiens

<400> 519
 Asn Ile Ile Phe Ser Asn Gly Asn Leu Asp Pro Trp Ala Gly Gly Gly
 1 5 10 15

<210> 520
 <211> 22
 <212> PRT
 <213> Homo sapiens

<400> 520
 Ala Met Met Asp Tyr Pro Tyr Pro Thr Asp Phe Leu Gly Pro Leu Pro
 1 5 10 15
 Ala Asn Pro Val Lys Val
 20

<210> 521
 <211> 8
 <212> PRT
 <213> Homo sapiens

<400> 521
 Phe Tyr Thr Gly Asn Glu Gly Asp
 1 5

<210> 522
 <211> 490
 <212> PRT
 <213> Homo sapiens

<400> 522
 Met Gly Ser Ala Pro Trp Ala Pro Val Leu Leu Leu Ala Leu Gly Leu
 1 5 10 15
 Arg Gly Leu Gln Ala Gly Ala Arg Ser Gly Pro Arg Leu Pro Gly Ala
 20 25 30
 Leu Leu Pro Ala Ala Ser Gly Pro Leu Gln Leu Arg Ala Leu Arg Gln
 35 40 45
 Gln Asp Leu Pro Ser Ala Leu Pro Gly Val Gly Gln Val Leu Gly Pro
 50 55 60
 Gly Arg Gly Ala His Leu Leu Leu His Trp Glu Arg Gly Arg Arg Val
 65 70 75 80
 Gly Leu Arg Gln Gln Leu Gly Leu Arg Arg Gly Leu Ala Ala Glu Arg
 85 90 95

Gly Ala Leu Leu Val Phe Ala Glu His Arg Tyr Tyr Gly Lys Ser Leu
 100 105 110
 Pro Phe Gly Ala Gln Ser Thr Gln Arg Gly His Thr Glu Leu Leu Thr
 115 120 125
 Val Glu Gln Ala Leu Ala Asp Phe Ala Glu Leu Leu Arg Ala Leu Arg
 130 135 140
 Arg Asp Leu Gly Ala Gln Asp Ala Pro Ala Ile Ala Phe Gly Gly Ser
 145 150 155 160
 Tyr Gly Gly Met Leu Ser Ala Tyr Leu Arg Met Lys Tyr Pro His Leu
 165 170 175
 Val Ala Gly Ala Leu Ala Ala Ser Ala Pro Val Leu Ser Val Ala Gly
 180 185 190
 Leu Gly Asp Ser Asn Gln Phe Phe Arg Asp Val Thr Ala Asp Phe Glu
 195 200 205
 Gly Gln Ser Pro Lys Cys Thr Gln Gly Val Arg Glu Ala Phe Arg Gln
 210 215 220
 Ile Lys Asp Leu Phe Leu Gln Gly Ala Tyr Asp Thr Val Arg Trp Glu
 225 230 235 240
 Phe Gly Thr Cys Gln Pro Leu Ser Asp Glu Lys Asp Leu Thr Gln Leu
 245 250 255
 Phe Met Phe Ala Arg Asn Ala Phe Thr Val Leu Ala Met Met Asp Tyr
 260 265 270
 Pro Tyr Pro Thr Asp Phe Leu Gly Pro Leu Pro Ala Asn Pro Val Lys
 275 280 285
 Val Gly Cys Asp Arg Leu Leu Ser Glu Ala Gln Arg Ile Thr Gly Leu
 290 295 300
 Arg Ala Leu Ala Gly Leu Val Tyr Asn Ala Ser Gly Ser Glu His Cys
 305 310 315 320
 Tyr Asp Ile Tyr Arg Leu Tyr His Ser Cys Ala Asp Pro Thr Gly Cys
 325 330 335
 Gly Thr Gly Pro Asp Ala Arg Ala Trp Asp Tyr Gln Ala Cys Thr Glu
 340 345 350
 Ile Asn Leu Thr Phe Ala Ser Asn Asn Val Thr Asp Met Phe Pro Asp
 355 360 365
 Leu Pro Phe Thr Asp Glu Leu Arg Gln Arg Tyr Cys Leu Asp Thr Trp
 370 375 380
 Gly Val Trp Pro Arg Pro Asp Trp Leu Leu Thr Ser Phe Trp Gly Gly
 385 390 395 400
 Asp Leu Arg Ala Ala Ser Asn Ile Ile Phe Ser Asn Gly Asn Leu Asp
 405 410 415
 Pro Trp Ala Gly Gly Gly Ile Arg Arg Asn Leu Ser Ala Ser Val Ile
 420 425 430
 Ala Val Thr Ile Gln Gly Gly Ala His His Leu Asp Leu Arg Ala Ser
 435 440 445

His Pro Glu Asp Pro Ala Ser Val Val Glu Ala Arg Lys Leu Glu Ala
450 455 460

Thr Ile Ile Gly Glu Trp Val Lys Ala Ala Arg Arg Glu Gln Gln Pro
465 470 475 480

Ala Leu Arg Gly Gly Pro Arg Leu Ser Leu
485 490

<210> 523

<211> 22

<212> PRT

<213> Homo sapiens

<400> 523

Cys Ser Val Phe Pro Pro Ser Leu Trp Phe Tyr Leu Pro Leu Val Phe
1 5 10 15

Asp Asp Gly Asp Val Gln
20

<210> 524

<211> 122

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (113)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 524

Gly Val Ser Leu Pro Leu Leu Gly Asp Ala Ser Gln Leu Gly Tyr Leu
1 5 10 15

Gly Val Arg Asp Ala Leu Glu Glu Ala Leu Cys Leu Phe Ser Asp Val
20 25 30

Gln Leu Cys Ala Gly Arg Thr Ser Ala Leu Phe Lys Ala Xaa Arg Gln
35 40 45

Gly Arg Leu Ser Leu Gln Arg Ile Leu Leu Pro Phe Val Trp Leu Cys
50 55 60

Pro Ala Pro Gln Arg Trp Ser Leu Gln Arg Gln Ala Gly Leu Leu Glu
65 70 75 80

Leu Arg Trp Ala Pro Pro Ser Ser Ser Phe Leu Ala Ala Leu Phe Thr
85 90 95

Pro Ser Ser Leu Gly Asn Gly Gly Arg Pro Ser Pro Ser Leu Thr Ala
100 105 110

Xaa Leu Gln Phe Asp Leu Arg Leu Leu Cys
115 120

<210> 525
 <211> 74
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (62)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (74)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 525
 Val Cys Arg Gly Phe Cys Cys Leu Leu Phe Gly Cys Ala Leu Pro Pro
 1 5 10 15
 Arg Gly Gly Val Tyr Arg Gly Arg Gln Ala Ser Leu Asn Cys Gly Gly
 20 25 30
 Leu His Arg Val Arg Val Ser Trp Pro Leu Cys Leu Pro Pro Gln Ala
 35 40 45
 Ser Ala Met Val Gly Ala Pro Pro Pro Ala Ser Leu Pro Xaa Cys Ser
 50 55 60
 Leu Ile Ser Asp Cys Cys Ala Ser Asn Xaa
 65 70

<210> 526
 <211> 34
 <212> PRT
 <213> Homo sapiens

<400> 526
 Met Ser His Lys His Met Arg Arg Ser Ala Thr Ser Tyr Ile Ile Arg
 1 5 10 15
 Glu Arg Gln Ile Lys Ile Ile Val Arg Tyr His Tyr Thr Pro Ile Met
 20 25 30
 Thr Thr

<210> 527
 <211> 16
 <212> PRT
 <213> Homo sapiens

<400> 527
 Ile Arg Glu Arg Gln Ile Lys Ile Ile Val Arg Tyr His Tyr Thr Pro
 1 5 10 15

<210> 528

<211> 13
 <212> PRT
 <213> Homo sapiens

<400> 528
 Lys Lys Thr Cys Thr Met Phe Ile Ala Thr Leu Phe Thr
 1 5 10

<210> 529
 <211> 13
 <212> PRT
 <213> Homo sapiens

<400> 529
 Glu Lys Ile Phe Ala Lys His Leu Ser Val Lys Gly Leu
 1 5 10

<210> 530
 <211> 83
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (21)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (39)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 530
 Ser Val Ala Ser Val Phe Ile Pro Leu Lys Val Ser Val Thr Lys Gln
 1 5 10 15
 Phe Ile Phe Phe Xaa Phe Phe Phe Phe Leu Arg Arg Ser Leu Ala Pro
 20 25 30
 Ala Trp Val Ala Glu Arg Xaa Thr Ser Gln Glu Thr Lys Gln Asn Lys
 35 40 45
 Lys Thr Pro Gln Leu Arg Gly Lys Val Ala His Ala Cys Asp Pro Ile
 50 55 60
 Thr Leu Gly Gly Arg Arg Trp Glu Val Gly Glu Ser Leu Glu Ala Arg
 65 70 75 80
 Ser Pro Ser

<210> 531
 <211> 184
 <212> PRT
 <213> Homo sapiens

<400> 531
 Tyr Met Cys Cys Pro Phe Val Leu Asp Lys Asp Gly Val Ser Ala Ala
 1 5 10 15

Val Ile Ser Ala Glu Leu Ala Ser Phe Leu Ala Thr Lys Asn Leu Ser
 20 25 30
 Leu Ser Gln Gln Leu Lys Ala Ile Tyr Val Glu Tyr Gly Tyr His Ile
 35 40 45
 Thr Lys Ala Ser Tyr Phe Ile Cys His Asp Gln Glu Thr Ile Lys Lys
 50 55 60
 Leu Phe Glu Asn Leu Arg Asn Tyr Asp Gly Lys Asn Asn Tyr Pro Lys
 65 70 75 80
 Ala Cys Gly Lys Phe Glu Ile Ser Ala Ile Arg Asp Leu Thr Thr Gly
 85 90 95
 Tyr Asp Asp Ser Gln Pro Asp Lys Lys Ala Val Leu Pro Thr Ser Lys
 100 105 110
 Ser Ser Gln Met Ile Thr Phe Thr Phe Ala Asn Gly Gly Val Ala Thr
 115 120 125
 Met Arg Thr Ser Gly Thr Glu Pro Lys Ile Lys Tyr Tyr Ala Glu Leu
 130 135 140
 Cys Ala Pro Pro Gly Asn Ser Asp Pro Glu Gln Leu Lys Lys Glu Leu
 145 150 155 160
 Asn Glu Leu Val Ser Ala Ile Glu Glu His Phe Phe Gln Pro Gln Lys
 165 170 175
 Tyr Asn Leu Gln Pro Lys Ala Asp
 180

<210> 532
 <211> 199
 <212> PRT
 <213> Homo sapiens

<400> 532
 Ala Arg Gly Lys Thr Val Leu Phe Ala Phe Glu Glu Ala Ile Gly Tyr
 1 5 10 15
 Met Cys Cys Pro Phe Val Leu Asp Lys Asp Gly Val Ser Ala Ala Val
 20 25 30
 Ile Ser Ala Glu Leu Ala Ser Phe Leu Ala Thr Lys Asn Leu Ser Leu
 35 40 45
 Ser Gln Gln Leu Lys Ala Ile Tyr Val Glu Tyr Gly Tyr His Ile Thr
 50 55 60
 Lys Ala Ser Tyr Phe Ile Cys His Asp Gln Glu Thr Ile Lys Lys Leu
 65 70 75 80
 Phe Glu Asn Leu Arg Asn Tyr Asp Gly Lys Asn Asn Tyr Pro Lys Ala
 85 90 95
 Cys Gly Lys Phe Glu Ile Ser Ala Ile Arg Asp Leu Thr Thr Gly Tyr
 100 105 110
 Asp Asp Ser Gln Pro Asp Lys Lys Ala Val Leu Pro Thr Ser Lys Ser
 115 120 125
 Ser Gln Met Ile Thr Phe Thr Phe Ala Asn Gly Gly Val Ala Thr Met

130 135 140

Arg Thr Ser Gly Thr Glu Pro Lys Ile Lys Tyr Tyr Ala Glu Leu Cys
 145 150 155 160

Ala Pro Pro Gly Asn Ser Asp Pro Glu Gln Leu Lys Lys Glu Leu Asn
 165 170 175

Glu Leu Val Ser Ala Ile Glu Glu His Phe Phe Gln Pro Gln Lys Tyr
 180 185 190

Asn Leu Gln Pro Lys Ala Asp
 195

<210> 533
 <211> 18
 <212> PRT
 <213> Homo sapiens

<400> 533
 Asp Lys Asp Gly Val Ser Ala Ala Val Ile Ser Ala Glu Leu Ala Ser
 1 5 10 15

Phe Leu

<210> 534
 <211> 13
 <212> PRT
 <213> Homo sapiens

<400> 534
 Arg Asp Leu Thr Thr Gly Tyr Asp Asp Ser Gln Pro Asp
 1 5 10

<210> 535
 <211> 15
 <212> PRT
 <213> Homo sapiens

<400> 535
 Lys Ala Val Leu Pro Thr Ser Lys Ser Ser Gln Met Ile Thr Phe
 1 5 10 15

<210> 536
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 536
 Thr Met Arg Thr Ser Gly Thr Glu Pro Lys Ile Lys Tyr Tyr Ala Glu
 1 5 10 15

Leu

<210> 537

<211> 22
 <212> PRT
 <213> Homo sapiens

<400> 537
 Ser Gln Arg Ile Phe Leu His Gly Asn Arg Ile Ser His Val Pro Ala
 1 5 10 15
 Ala Ser Phe Arg Ala Cys
 20

<210> 538
 <211> 22
 <212> PRT
 <213> Homo sapiens

<400> 538
 Leu Thr Ile Leu Trp Leu His Ser Asn Val Leu Ala Arg Ile Asp Ala
 1 5 10 15
 Ala Ala Phe Thr Gly Leu
 20

<210> 539
 <211> 23
 <212> PRT
 <213> Homo sapiens

<400> 539
 Leu Glu Gln Leu Asp Leu Ser Asp Asn Ala Gln Leu Arg Ser Val Asp
 1 5 10 15
 Pro Ala Thr Phe His Gly Leu
 20

<210> 540
 <211> 22
 <212> PRT
 <213> Homo sapiens

<400> 540
 Leu His Thr Leu His Leu Asp Arg Cys Gly Leu Gln Glu Leu Gly Pro
 1 5 10 15
 Gly Leu Phe Arg Gly Leu
 20

<210> 541
 <211> 22
 <212> PRT
 <213> Homo sapiens

<400> 541
 Leu Gln Tyr Leu Tyr Leu Gln Asp Asn Ala Leu Gln Ala Leu Pro Asp
 1 5 10 15
 Asp Thr Phe Arg Asp Leu
 20

<210> 542
 <211> 22
 <212> PRT
 <213> Homo sapiens

<400> 542
 Leu Thr His Leu Phe Leu His Gly Asn Arg Ile Ser Ser Val Pro Glu
 1 5 10 15
 Arg Ala Phe Arg Gly Leu
 20

<210> 543
 <211> 22
 <212> PRT
 <213> Homo sapiens

<400> 543
 Leu Asp Arg Leu Leu Leu His Gln Asn Arg Val Ala His Val His Pro
 1 5 10 15
 His Ala Phe Arg Asp Leu
 20

<210> 544
 <211> 22
 <212> PRT
 <213> Homo sapiens

<400> 544
 Leu Met Thr Leu Tyr Leu Phe Ala Asn Asn Leu Ser Ala Leu Pro Thr
 1 5 10 15
 Glu Ala Leu Ala Pro Leu
 20

<210> 545
 <211> 13
 <212> PRT
 <213> Homo sapiens

<400> 545
 Ala His Cys Ser Ala Ala Arg Gly Leu Arg Ala Thr Arg
 1 5 10

<210> 546
 <211> 15
 <212> PRT
 <213> Homo sapiens

<400> 546
 Pro Ala His Cys Ser Ala Ala Arg Gly Leu Arg Ala Thr Arg Phe
 1 5 10 15

<210> 547
 <211> 23
 <212> PRT
 <213> Homo sapiens

<400> 547
 Pro Ser Leu Thr Cys Ser Leu Thr Pro Leu Gly Leu Ala Leu Val Leu
 1 5 10 15
 Trp Thr Val Leu Gly Pro Cys
 20

<210> 548
 <211> 21
 <212> PRT
 <213> Homo sapiens

<400> 548
 Leu Pro Ser Leu Thr Cys Ser Leu Thr Pro Leu Gly Leu Ala Leu Val
 1 5 10 15
 Leu Trp Thr Val Leu
 20

<210> 549
 <211> 24
 <212> PRT
 <213> Homo sapiens

<400> 549
 Leu Pro Ser Leu Thr Cys Ser Leu Thr Pro Leu Gly Leu Ala Leu Val
 1 5 10 15
 Leu Trp Thr Val Leu Gly Pro Cys
 20

<210> 550
 <211> 14
 <212> PRT
 <213> Homo sapiens

<400> 550
 Cys Arg Asn Leu Thr Ile Leu Trp Leu His Ser Asn Val Leu
 1 5 10